

THE TECHNOLOGY REVIEW

• RELATING • TO • THE • MASSACHUSETTS •
• INSTITUTE • OF • TECHNOLOGY •



JULY, 1923

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A Life of Francis Amasa Walker

Third President of the Massachusetts Institute of Technology

By James Phinney Munroe



GENERAL WALKER was eminent as a soldier, a statistician, an economist, an administrator, an educator, and, above all, as a man.

He was born in 1840, graduated at Amherst in 1860, fought through the Civil War and was breveted Brigadier General at twenty-five; was Superintendent of the Census at twenty-nine, Commissioner of Indian Affairs at thirty, Professor in Yale at thirty-one, President of the Massachusetts Institute of Technology at forty-one, and died at fifty-seven.

His first book, on the Wages Question, published in 1877, at once attracted the attention of economists, and was made part of the curriculum at Oxford. His Political Economy, published in 1883, marked him as the leading economist of America, if not of his time. He was the first President of the American Economic Association, and filled many other posts of usefulness and honor.



Partly because his family felt that no man's biography should be written until his life work has been before the world for

twenty-five years, the present biography is but just ready. Its author was Secretary of the Faculty of the Institute of Technology during a large part of President Walker's administration.

The extracts from the author's Civil War reminiscences and letters meet a wide and undying interest; the accounts of his activities as a

statistician, economist and educator are of very exceptional value to all associated with these pursuits; the chapters on the Institute must be of great interest, not only to all Technology Alumni, but also to every undergraduate who finds daily satisfaction in the use of the Walker Memorial; and the book as a whole appeals to all who find entertainment and instruction in reading exemplary biography.

The volume contains 437 octavo pages of text, exclusive of the index and seven half-tone illustrations. The price is \$4.00.

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THE TECHNOLOGY REVIEW

RELATING TO THE
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

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Vol. XXV

JULY, 1923

No. 8

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PUBLISHED BY THE ALUMNI ASSOCIATION

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Arthur T. Hopkins, '97, *Secretary-Treasurer*

Committee on The Technology Review

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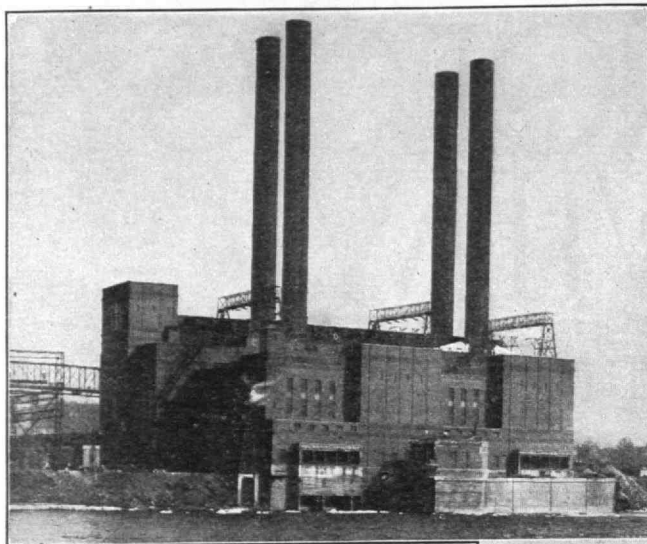
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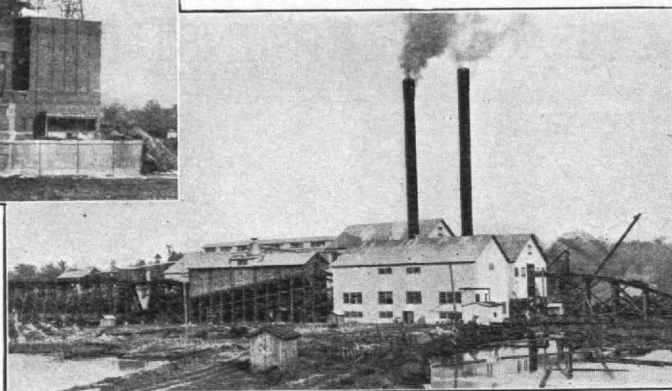
KENNETH REID, '18, until 1928

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Colfax Station of the
Duquesne Light Com-
pany at Cheswick, Pa.

Power plant and electri-
cally driven sawmill of
the Denkmann Lumber
Company at Norfield,
Miss.



Meeting Individual Power Requirements

The ability of this organization to provide power units to meet the needs of different industries is well illustrated by the two plants shown above.

Colfax* is a mine-mouth super-power plant with an ultimate capacity of 360,000 k. w. — 120,000 in operation and 60,000 additional now being installed. As part of the "Duquesne Power Ring," it is a vital factor in the supply of industrial power to the Pittsburgh District. Its size is limited only by the supply of condensing water available from the Allegheny River, on which it is located.

The Denkmann plant, by contrast, has only one 1000 k. w. turbo-generator unit — less than one-three-hundredth the size of the ultimate Colfax development. It supplies power to an electrically driven sawmill, designed and constructed for the Denkmann Lumber Co. As the timber will be cut over in relatively few years, it was desirable to keep the plant investment at a minimum. To that end a second-hand boiler plant was installed, and the building constructed simply of sheet iron on a timber frame. The turbo-generator unit operates with a barometric condenser utilizing the two log ponds in the foreground for cooling. These are connected by a flume — the condenser pump intaking from one pond and discharging into the other.

Whether your power plant problem is large, including substations, transmission lines and other elements, or whether it is an accessory to a manufacturing plant, this organization can contribute to its profitable solution.

**A technical description of Colfax Station will be sent on request.*

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The Past Months

OF PARAMOUNT importance in the two months that have passed since the publication of the last Review is, of course, the Inauguration of President Stratton in Symphony Hall on the morning of June 11. The formality of the ceremony befitted its importance. Under the skillful marshaling of Colonel Frank L. Locke, '86, the events of the day ran off with speed, precision and effectiveness. The event is fully dealt with in other pages of this issue and it is our duty here to record no more than the happening.

GRADUATION, which came next day, was a fitting sister ceremony. It was held outdoors, in Eastman Court, and was distinguished from graduations of previous years by many new features and the absence of some old ones. Academic dress was prescribed for Faculty and graduating students. There were two formal addresses and the old time assortment thesis abstracts was jettisoned. The speakers were Elisha Lee, '92, Vice-President of the Pennsylvania Railroad and Major-General André W. Brewster, Commander of the First Corps Area.

Another feature of the day was the individual award of diplomas. These were carefully racked in front of Dr. Stratton, who made an individual presen-

tation to every man in the alphabetically arranged line which passed before him. This innovation, replacing the scramble of other years, added in great measure to the dignity of the ceremony.

The arrangements were admirably handled by a Faculty Committee of five of which Professor Theodore H. Dillon of the Department of Electrical Engineering was Chairman.

THOMAS ALVA EDISON was on hand. He came to see his son, Theodore Miller Edison, receive his diploma. In view of Mr. Edison's previous picturesque and stringent criticisms of the American educational system his presence at a ceremony which served officially to brand his son as 'uninformed and ignorant' was deemed most interesting by approximately five hundred newspapers throughout the country. The consensus of their opinion seemed to be that the graduation of Theodore M. was a thoroughly good joke on Thomas A. But Mr. Edison got out of his dilemma by making the admission that a technical institution was perhaps a bit more worthy of esteem than a college of liberal arts,

and having thus cleared his conscience, offered his son a job in his plant without the previous formality of answering any questionnaire. Edison *fits* greatly en-

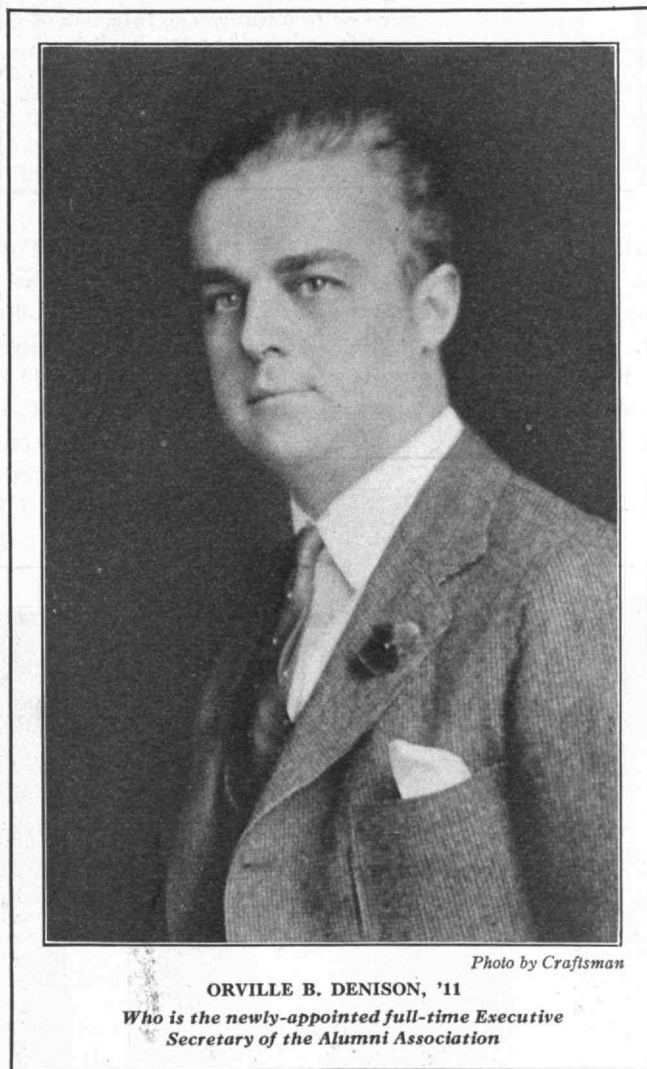


Photo by Craftsman

ORVILLE B. DENISON, '11

Who is the newly-appointed full-time Executive Secretary of the Alumni Association

riched the value of this joke by announcing his refusal of this offer and his intention to return to Technology next year for graduate work. Technology re-welcomes him and looks forward to Mr. Edison's attendance at the ceremonies which will confer upon his son successively the degrees of Master of Science, Doctor of Philosophy and anything else in the bestowal of the Institute that he cares to work for.

ANNOUNCEMENT is made by the Executive Committee of the Alumni Association of the appointment of Orville B. Denison, '11, as first incumbent of the newly-created post of Executive Secretary of the Alumni Association. The need for some full-time officer of the Association who will devote all his efforts to its upbuilding and to the furtherance of its aims and ambitions has long been felt. The choice of Mr. Denison is happily made and the Review, which expects to profit largely by his efforts, pauses a moment to hymn its pleasure at his appointment and to pray for his success in what will be an exacting, but, it is confident, a successful and profitable undertaking for everyone.

ENCYCLICAL

The new officers of the Alumni Association greet their constituency

To Members of the Alumni Association:

Mr. Carlson and his associates have given us a splendid administration and we rejoice in what they have done.

The new administration will strive to maintain the great record of the past.

We hope to increase the achievements of the Alumni Council and we shall strive for a closer and more effective relation with the local Technology Clubs.

These purposes we believe can be promoted by greater regularity of attendance of Council members, by the election of representatives who find it practicable to attend, to replace those who resign because attendance is impracticable; by sending reports of proceedings to all alumni who are interested; by the work of our new Executive Secretary, Mr. Orville B. Denison, '11, whose entire time will be given to the work of the Alumni Association, which will permit actual contact, by travel, with the local associations; and by the development of a committee or group in each local club to co-operate with the Council.

It shall be our purpose to advance the interests of Technology. The Institute depends upon the loyalty of its Alumni and we shall count upon your support.

George L. Gilmore, '90, *President*
Arthur T. Hopkins, '97, *Secretary*

June 28, 1923.

INSTITUTE men received their measure of honorary degrees in June. Most notable was the award to Dr. Stratton of the Harvard LL.D. which he received in common with William Lyon Mackenzie King, Prime Minister of Canada, James Hardy Dillard and John Pierpont Morgan. Tufts College bestowed upon Everett Morss, '85, Treasurer of the Institute, the Degree of Master of Arts. "Your genius has developed one of the leading industries in this vicinity" said the award. "The Boston Chamber of Commerce has profited by your leadership. As one of the Corporation of the Massachusetts Institute of Technology you have helped to place engineering education on a higher plane. Tufts College honors herself in granting to you the Degree of Master of Arts." Upon Professor Samuel C. Prescott, '94, head of the Department of Biology and Public Health, was conferred the Degree of Doctor of Science. At Kingston, Rhode Island State College conferred the Degree of Doctor of Science on Professor Augustus H. Gill, of the Department of Chemistry and the Degree of



Photo by Notman

THREE NEW CORPORATION MEMBERS

Left: Willis R. Whitney, '90
Center: Walter Humphreys, '97
Right: Charles R. Main, '09





Sketch by Welles Bosworth, '89, Institute Architect

YOU SEE THAT LETTERING ABOVE?

It represents no dream. It will fast be translated into accomplished fact. The letter below shows how it all came about.

Master of Science on Professor R. H. Smith who has for thirty years been in charge of the Institute's Machine Tool Laboratory.

FORMAL announcement of new elections and appointments was made on June 8. The new term members of the Corporation to succeed Paul W. Litchfield, '96, Arthur D. Little, '85, and Eben S. Stevens, '68, now retired, are Willis R. Whitney, '90, Director of the Research Division of the General Electric Company at Schenectady, Walter Humphreys, '97, former Registrar of the Institute and now Secretary-Treasurer of the National Association of Wool Manufacturers and

The Letter That Did It

June 9, 1923

President and Corporation,
Massachusetts Institute of Technology,
Cambridge, Mass.

Gentlemen:

Appreciating the great need of more dormitories in order that the undergraduate life of the Institute may more adequately and more healthfully express itself, the undersigned, representing the Class of 1893, take pleasure in hereby tendering to you our pledge of \$100,000.00 toward the erection of an additional dormitory building. In tendering this gift, we do so with the understanding and expectation that such a building, supplementing the present dormitory, be started at an early date — approximately the 1st of September.

Very truly yours,
CLASS OF '93

Francis W. Fabyan, *President*
Frederic H. Fay, *Treasurer*

Charles R. Main, '09, Consulting Engineer.

The list of Faculty promotions is headed by the name of Dr. Vannevar Bush of the Department of Electrical Engineering who becomes a full professor. Two other Associate Professors promoted to the full grade are W. J. Drisko, '95, of the Department of Physics and W. H. Timbie of the Department of Electrical Engineering. Assistant Professors Robert E. Rogers, English, Frank L. Hitchcock and Joseph Lipka, Mathematics, William H. James, Mechanical Engineering and Clair E. Turner, '17, Biology and Public Health become Associate Professors. New Assistant Professors are M. P. Hor-

wood, '16, Biology and Public Health, George Rutledge, Mathematics, James A. Beattie, '17, Physico-Chemical Research and W. G. Brown, Aeronautics.

J. C. McKinnon, '13, who has been Assistant to the Acting Registrar since the resignation, a year ago, of Walter Humphreys, has been appointed permanent Registrar. The one resignation of Faculty grade is that of F. R. Kneeland, Assistant Professor of Organic Chemistry, who had previously been on leave of absence.

SINCE Technology took from the Bureau of Standards its old head it was perhaps only fair that it should supply the new one. This arrangement may seem idyllic, but it has been consummated in all actuality. Dr. George K. Burgess, whose appointment as Head of the Bureau of Standards, in succession to Dr. Stratton, was recently announced by President Harding, graduated from the Institute's course in Physics in 1896. A short account of his career will be found in this issue on page 434.

PLANS are at present under way for the establishment of a Faculty Pension and Insurance system at the Institute. A system of retiring annuities has been under consideration by a Faculty Committee since April, 1920. A provisional scheme now extremely likely to be put into effect contemplates a contribution by the Institute each year from unrestricted funds of an amount equal to 5% of the total salary roll and the contribution each month for every member of the instructing staff (with some possible exceptions) of 5% of his salary. From the funds thus accruing the Institute will be able in future to provide insurance in case of death or total disability of a teacher and will likewise be able to provide satisfactorily for teachers who retire on reaching the age limit of sixty-five.

TWELVE of the twenty-five living members of the Class of 1873 met at Young's Hotel on the evening of May 31 to observe the Fiftieth Anniversary of their graduation from the Institute. There was no regular program. After dinner, letters from absent members were read and the Class sat about to smoke and deal in reminiscences. Dr. Francis H. Williams, President of the Class, was Toastmaster, and Robert A. Shailer, Secretary, read the letters.

In 1870 the Class sat for its picture on the steps of Rogers. At their Fiftieth Reunion once again they gathered on these self-same steps and once again were photographed.

Next evening the Class participated in the joint reunion held by the first ten classes of the Institute. Members of all classes from '68 to '77, whose ranks are now too thinned to make single reunions effective, gathered at the Boston City Club for a dinner over which President Stratton presided. The Class of '73 was the only one of these classes to hold, an autonomous reunion.

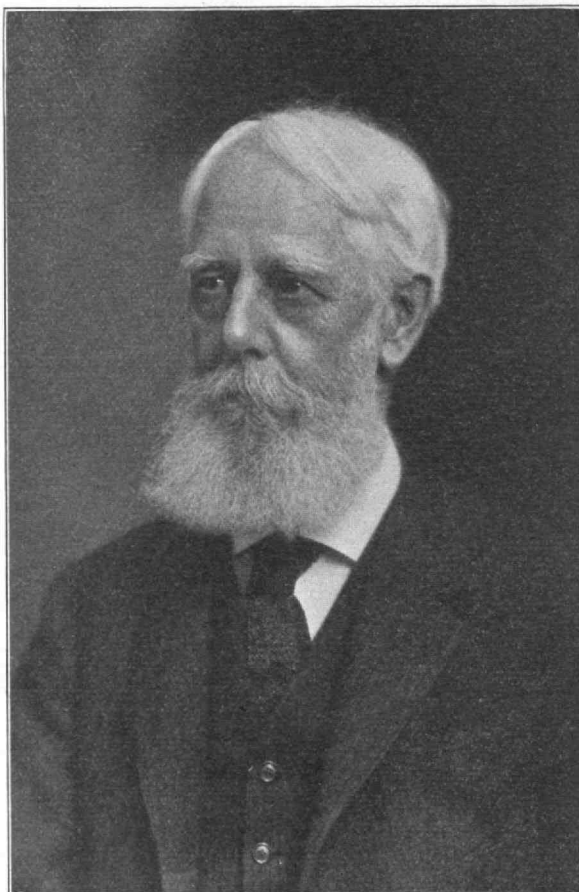


Photo by Notman

FRANCIS H. WILLIAMS, '73
President of the Class which, on May 31, celebrated its fiftieth anniversary of graduation

Committee on Summer Reading was abolished and no provision was made for the future administration of its work. The English Department,

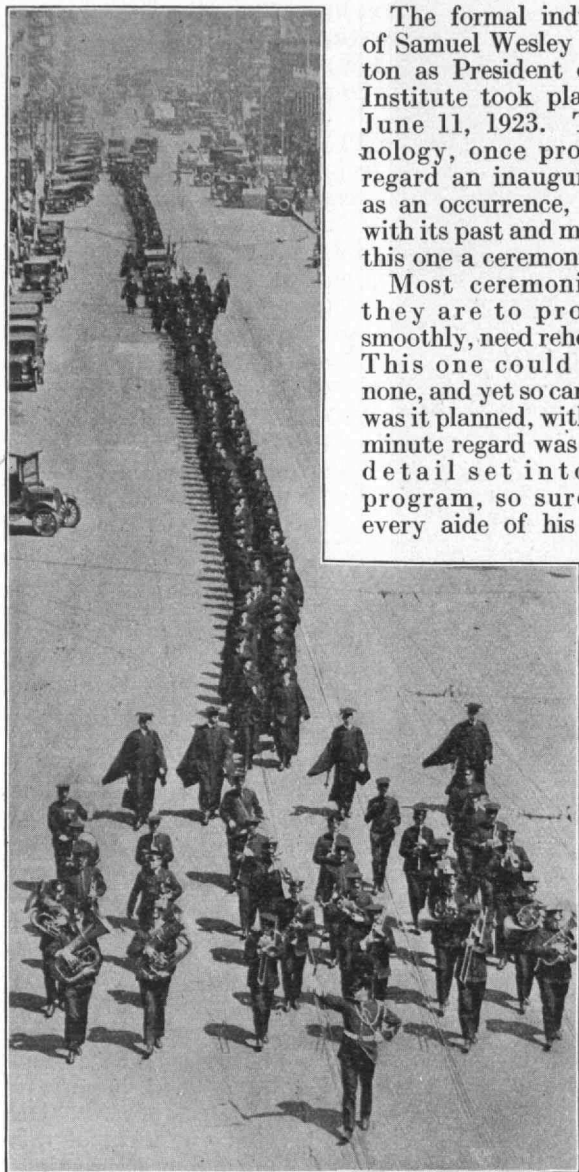
which had never been very enthusiastically in favor of the requirement, urged that this state of affairs be left unremedied and so, since there was no one to administer this work there was none who need perform it. A recent vote of the Faculty officially abolished the requirement.

To Our Readers

Volume XXV ends with this July number. Our readers are reminded that the Review is not again issued until November. This November issue will be the first of Volume XXVI and will be placed in the mails on October 25.

The Inauguration of the Ninth President

The ceremony at Symphony Hall on the morning of June 11 is notably precise and worthily impressive



The formal induction of Samuel Wesley Stratton as President of the Institute took place on June 11, 1923. Technology, once prone to regard an inauguration as an occurrence, broke with its past and made of this one a ceremony.

Most ceremonies, if they are to proceed smoothly, need rehearsal. This one could have none, and yet so carefully was it planned, with such minute regard was every detail set into the program, so sure was every aide of his place

Led by the officers and marshals of the class, between whose ranks two Sergeants carried the National and State colors, the procession began its march across the bridge and on to Huntington Avenue, where it halted. Dr. Stratton then entered Horticultural Hall, where the Academic Procession was to form, and the Senior escort ranked up in a double file to form a lane across Massachusetts Avenue through which the procession might pass. It did not wait long, for at a few minutes past eleven the procession, led by Frank L. Locke, '86, the Chief Marshal, and Merton L. Emerson, '04, his Chief Aide, emerged from Horticultural Hall, and entered Symphony Hall in two single lines through doors in the rear.

The procession which thus entered the crowded hall was no ordinary one in the history of Technology. Never before had Technology sponsored a procession, robed, as was this one, in full academic regalia. For the most part, the eye was filled with the idea of black silk. But the almost inevitable doctor's hoods and an occasional robe of brilliant red or yellow, or both, gave a visual impression which in journalism is known as "Colorful." Colorful, then, the procession was.

The two single lines, once clear of their entrance doors, merged into one double line, and advanced upon the platform, down the center aisle of the hall. The lines separated again at the platform where the delegates mounted one of two pairs of steps that lead over banks of juniper and cedar branches to the higher level of the platform. On the platform, the delegates and Institute Faculty took pre-arranged places, and waited for the entrance of Dr. Stratton, his Aides and the speakers of the day. The procession of almost 150 delegates had taken eleven minutes to enter the Hall.

At the entrance of Dr. Stratton the audience, which now included the 600 gowned members of the Senior Class who had entered at the close of the procession, rose to its feet and remained standing until he himself was seated.

The Reverend George Angier Gordon, following Dr. Stratton's entrance, rose and pronounced the Invocation which officially began the Order of Exercises. A short Prelude for the Organ, played by Wallace Goodrich, followed the Invocation. Then Frederick Perry Fish delivered the Introduction.

"In our hearts" he said, "we have already welcomed the new President of the Massachusetts Institute of Technology and pledged to him our cordial support. We are here today formally to bear witness to our satisfaction that we have secured, as our new leader, a man of such character, training and attainments as to assure the maintenance of the ideals and standards of work and service which have been established under his predecessors. The Massachusetts Institute of Technology was a pioneer in the type of education which it was organized to promote. It was founded to realize the far-sighted aspirations of a great man who foresaw the necessity of sound education of a distinctive character in order that the community might be able to deal adequately with coming industrial conditions which at that time were hardly on the horizon and could not even be foreseen except by the insight and sound imagination of one gifted with prophetic vision.

Photo by Christian Science Monitor

THE ESCORT OF THE PRESIDENT
Approaching Symphony Hall

and his duties, that the events of the morning moved forward with the precision and dispatch of military maneuvers.

Previous decision had chosen Symphony Hall as theatre for the ceremony, and called for the escort of the President from his residence across the Massachusetts Avenue Bridge to the Hall by the Graduating Class. Promptly at 10.45 the President's car, in which, with Dr. Stratton, were Dr. John Campbell Merriam, Colonel Frederick W. Phisterer, Professor of Military Science at the Institute, and Dr. Allan Winter Rowe, '01, swung out from the gravelled way before his house and turned west on Charles River Road. Then, at Eastman Court, the Senior escort formed into line before and behind the Presidential car.

The new industrial conditions, based upon the most extraordinary development in science which the world has ever seen, have come upon us in almost overwhelming force. They have imposed an intense strain upon our social and business organization from which we are not yet relieved. But the Institute and the other schools of a like type which have been organized to work on the same lines have been able to supply men technically trained as engineers and at the same time educated in a broader sense, without whom it would have been impossible to meet those conditions. Great was the contribution of President Rogers. Great has been the contribution of his successors. Great will be the contribution of President Stratton, an educator, a physicist and an executive trained in directing scientific research and in developing methods and men calculated to promote not only the progress of the useful arts but the general welfare."

The formal greeting accomplished, Chairman Fish called upon His Excellency, Channing Harris Cox, Governor of the Commonwealth.

"Massachusetts stands pledge to continue her leadership in education" said the Governor. "There can be no important question affecting the public policy that is not influenced by a wide diffusion of learning among our people. A broad and liberal conception of the place and function of public education is related inseparably to the economic, social and civil life of the State.

"Massachusetts was early to recognize the importance of science and she has been jealous to offer to her sons every opportunity for technical training. Today, we are assembled at a seat of learning where men have studied with serious purpose under skilled teachers and from which they have gone forth well equipped to do large things for the welfare of the world.

"Massachusetts holds in tender regard those who have labored and sacrificed to make Technology great and strong and worthy. So devoted, so gifted, have been the leaders of this great school, that when they have fallen, one after another, it has been a task of the utmost difficulty to fill their places. But today, we are happy as we appreciate the significance of this ceremony.

"A new leader has answered the call of duty, and confidently we pledge our support to him who has amply demonstrated his capacity as student, teacher, scientist, administrator, and as a courageous leader of men. I greet you, Doctor Stratton, a worthy



COL. FRANK L. LOCKE, '86

Chief Marshal at Inauguration, to whom in great measure was due the success of the ceremony

successor in a line of eminent presidents of this institution which has contributed richly to the glory of Massachusetts."

At the conclusion of Governor Cox's words, Chairman Fish called upon "a soldier of high rank, an eminent scientist and a great inventor, who has spent his life in the service of his country, and who knows our new President and his work at the National Bureau of Standards, to speak for the Government of the United States."

Major-General George Owen Squier responded. Briefly, General Squier reviewed the history of the earlier days of Technology's President. Then: "I have personally known Dr. Stratton, I think, for fifteen years, and have not only been intimately connected with his activities, in my own department, but also have seen them in the other departments of the Government. I wish I could tell you what is in my heart and the way I feel of his great work. The keynote of his life's effort, as it seems to me, is the spirit to serve. He has taught us coöperation: he has taught us how to get rid of duplication in govern-

ment. And especially during the great War, where I served with him on many boards and on the National Research Council and in the creation of the great air fleet, days and nights we worked together. And I deem it a great honor, one of the greatest honors, to be ordered here today, which I was, to salute Dr. Stratton, which I now do, as the President of this great institution and bring to him our best greetings and wishes from the National Government."

Chairman Fish next presented Professor Edward F. Miller, '86, Chairman of the Faculty for the past year. To previous speakers the audience had been generous with its applause, but when Professor Miller rose, the enthusiasm of the Senior Class broke its traces, and for close to two minutes Professor Miller stood silent upon the platform as upon a peak in Darien while his students (of all years) and their friends, filled the hall with the noise of their tribute.

"It is my very great privilege" said Professor Miller, when he could be heard, "as the representative of the Faculty to welcome you as our leader and Guide. You Mr. President, a physicist, an engineer, a man whose wonderful ability to coördinate the work of the pure scientist with that of the engineer has already been demonstrated, come to us at a time when the Institute needs a leader, a man of broad vision who can see Technology as it will be fifty years hence, a

man with the foresight of Rogers, a man with the generalship of Walker and a man with the courage of Maclaurin. To such a leader whom we have in you, Sir, the Faculty pledges its loyalty and its support."

When Chairman Fish introduced Charles William Eliot, President Emeritus of Harvard University who was to make the address of greeting for the Founders, the audience rose in spontaneous acclaim to him. His speech was slow and soft, but never more fluent, and, unique among the orators of the day, he disdained all manuscript.

"I am to speak for the founders of this institution. To my thinking, they are just two persons, — Mr. and Mrs. William Barton Rogers. The first great task to which this pair of devoted worshippers of each other turned, the first effort they made together, was to develop before the Boston public a scheme for the foundation of a new school. It was not called Technology at first. It was a new school of applied science.

"Mr. Rogers, as has already been said, had a distinct prophetic vision of the part which applied science was to play in the development not only of American industries but of American Democracy. Mrs. Rogers had large means of helping him in this attempt. She was acquainted with all Boston society. She knew

the old families and the newer families. She could bring to a parlor meeting just the people that Mr. Rogers needed to talk to. Together, they worked to diffuse through the Boston Community this vision that Professor Rogers had in his mind and which she came to carry in her heart. Those two people were the founders of this institution, and it is only fifty-eight years ago that they achieved that founding, a short time, but a time of innumerable changes and great progress for America and for humanity. Together, they worked in the selection of the faculty. We know how strong and powerful the faculty of the Institute has become, but the first faculty numbered only eleven men, and to get eleven I have to count Professor Pickering, who joined the faculty three years after the rest of us. Of that first faculty of eleven, eight of us were graduates of Harvard University.

"Mr. Rogers and Mrs. Rogers devoted themselves day and night, I may say, to the care of those students and to the guidance of that faculty, and they both exhibited in that work skill, good feeling, hopefulness, courage. I repeat, gentlemen, that Mr. and Mrs. William Barton Rogers were the founders of this institution."

Now widely divergent though the characters of the



THE START OF THE INAUGURATION

The procession across Harvard Bridge. The President's car is seen in the center. Behind it follow students of the Senior Class. Another detachment of them, not shown in the photograph, is in front

Photo by Boston Transcript

preceding speakers were, one element their speeches shared in common. That was sobriety. It remained for Charles-Edward Amory Winslow, '98, Professor of Public Health at Yale University who spoke for the Alumni to shatter the illusion of the audience that this was a church ceremony, and that they were a congregation. He shattered it completely. He might even be said to have jazzed the proceedings a mite. Certainly he mingled a saxophone with a string quartette, but so skillful were his modulations that not one harmonic could be gainsaid. The speech follows:

"My first very pleasant duty is to express the opinion of the alumni concerning their new president. And that, I think, I can do best by quoting a story which is very familiar to us at New Haven, though perhaps not so well known here, of Professor Ladd, who taught philosophy to the undergraduates for a great many years. On one occasion he called up a student and said, 'Mr. Proctor, will you please state your opinion in regard to the freedom of the Will.' And Mr. Proctor rose, totally unprepared, as he generally was, and with a slight hesitation in his speech, said, 'Why, it's — it's — all right.'

"The Alumni feel that President Stratton is all right. And they pledge their heartiest and most enthusiastic support in whatever plan he may have in mind for the furtherance of the Institute.

"On behalf of the alumni I am very glad to accept and endorse the remarks of the chairman that there is no more devoted and loyal body of alumni connected with any institution. But I may say that if that is true, it is only proper, because to whom much has been given, from him much should be expected. And I may add one more thing, perhaps, for the president's information. I don't know whether he has yet found it out, but he should know that among the classes that have graduated from the Institute, the Class of '98 is the most distinguished and the most eminent. We have just had our 25th reunion at Saybrook, and that was our unanimous opinion.

"Since Mr. Munroe asked me to speak this morning I have been thinking a little about the function of the alumni and their relation to the institution. Of course, in times of endowment drives, their function is obvious. But in the short intervals between those periods, the alumni consider that their function is to advise the faculty how to educate the student.

"I am a teacher as well as an alumnus, so I do not agree to that supposition. I am inclined to think that the value of the alumni to their Alma Mater is not because they are alumni at all, not because they are old and wise at all, but because they *were* students. They come back to their institution because it makes them feel young. It takes them back to the days when they were undergraduates.

"It seems to me that these alumni are of primary value because they bring this undergraduate point of view. The Faculty and the Corporation understand the daily difficulties that are to be overcome, but it is well that they should have by their side the spirit of ambition and pride and boundless hope. It is well that the alumni should hold up to every faculty and every corporation the institution of their dreams, — which is the institution that they thought the institution was when they were students.

"Now, to us alumni of the Institute, the essential thing about the Institute, the essential thing that we hold so dear is the spirit of science. We are quite willing to leave the details of the inculcation of that

spirit to the faculty so long as that spirit reigns. But what I think we do want is that that spirit should have, through the work of the Institute and its alumni, the widest possible fruition. The problems of the purely material universe have been very largely solved during the past century. The great problems of the next century are of a different nature. They are problems of human relationship.

If, as representing the alumni this morning, I have any wish for this Institute which Dr. Stratton is to carry on, it is that the young men who come here may fully realize the potency of the talisman of the scientific spirit, that they may not be merely engineers, but citizens, and citizens not merely of America, but of the world. And thus the torch which Dr. Stratton takes up today from the unseen hands of Maclaurin and Walker and Rogers may illumine all the dark places along that difficult road which leads onward toward a world of order and of progress and of peace."

The long oration of the day was made by President John Campbell Merriam of the Carnegie Institution of Washington, who was introduced by Chariman Fish as "a scientist and educator of the highest rank, and an eminent writer on scientific subjects." Dr. Merriam's speech was a plea for the study and teaching of science in its broadest sense, and the voicing of a confidence that Dr. Stratton would succeed in making Technology humane as well as scientific.

"I have testified also to the fact that Dr. Stratton stands firmly for straight thinking, with particular reference to its human significance," he said. "It is a question whether the accumulated contributions of all the sciences and engineering to the tangible wealth and bodily comfort of the people equal in importance the influence of educational agencies upon the intellectual and spiritual life, and upon the ideals and practices of citizenship."

At the conclusion of Dr. Merriam's address and after the interval of Widor's Seventh Organ Symphony, Chairman Fish brought the day to its climax by his introduction of Dr. Stratton. There was no cheering, but the audience rose to its feet and applauded with an enthusiasm and persistence which left Dr. Stratton visibly affected.

"I hardly know how to express my appreciation for the kind words that have been said this morning," he said. "I know that the pledge of the faculty and corporation rings true. I have been here but a short time, and in that time, the students, the faculty, the corporation, have assured me, as far as actions can go, that I shall have their support. I appreciate more than words can tell the messages and the kind words, that have come from our guests."

Following the Inaugural (which is reprinted on page 421), the Academic Procession left the Hall to the strains of an organ recessional. The Inauguration was over. Here and there a constructionist may have wondered the precise moment at which Dr. Stratton achieved inauguration, for the record does not show the point of his actual investment with the powers of office. But whenever, or however, it happened, there can be no doubt that this inauguration seemed more like an inauguration than ever did an inauguration at Technology before. Technology left the hall well pleased with its President, itself and the function which had officially joined the two. But, splendid though the ceremony had been, it left hoping that it would be a long, long time, indeed, until the next.

The Effect of Science in the Evolution of Industry

The Inaugural Address, reprinted here in somewhat condensed form

In the office of the President of the Massachusetts Institute of Technology is carved the following line taken from Pliny's Natural History: *Alia Initia E Fine*—a liberal translation of which is: Every Finish Marks a Fresh Start. It would be difficult to find an expression more appropriate to the work of that institution or more descriptive of the progress of science in general.

Steam transportation has just celebrated its hundredth birthday. There are few of us who have not paused at the end of a railroad journey to admire the huge, compact, almost living machine that has hauled its enormous and precious load to its destination. We ride with all the comforts of a first-class hotel from one ocean to another, but really to appreciate the magnificent performance of this leviathan one must stand by the track in the darkness of the night, in the mountains, or the wilderness of the desert and watch its performance at full speed. It is an inspiring sight and causes one to wonder that materials exist and can be put in form to withstand such a task. To the mechanical engineer it would recall to mind the first predecessor of the locomotive, now hardly a load for a large modern truck. He would undoubtedly recall the difficulties encountered in the early days of its history. It would be interesting to hear the comments of the man who, when the railroad was first proposed, wrote the ten reasons why it should not be built, were he the observer.

Our modern engineer would recall the life work of many of his predecessors whose names will always appear among those who stand foremost as pioneers in the development of the steam railroad. He would not forget the master mechanic and others in charge of the motive power of the great railroad systems, who spent their lives in improving the locomotive with a devotion to the work not excelled in any other industry. He would acknowledge the indebtedness of his profession to the physicist who contributed the data as to the properties of steam, to the chemist who solved many problems concerning materials, and to the metallurgist who produced new materials as needed for better boilers, wheels or axles. If our observing engineer happened to be one of the leaders of our great loco-

By SAMUEL WESLEY STRATTON

President of the Institute

motive works, what an interesting story he could write of the steps that have been taken in the evolution of the locomotive and how one has led to the next as the result of hard experience. What the locomotive's final rôle will be in the transportation problem of the future it is difficult to predict, but it will always stand

as a great achievement of the mechanical engineering profession.

Another evolution that has taken place quite within the memory of many present is that of the generation, transmission and use of electric power. Electricity has supplied the power for transportation in local areas, and is now replacing steam transportation over many longer distances. It has made suburban life possible over greater areas, it has increased the comfort and lessened the burdens of every household, has reduced the cost of manufacturing and has conserved our natural resources. The steam locomotive which we admire so much and which has been a good and faithful servant is not an efficient one.

Great advances have been made in the transmission of electric power. Some transmission lines now exceed a length of two

hundred and fifty miles, and it is already proposed to cover large areas with a network of power lines fed by generating plants at different points producing a continuous system hundreds of miles in length. These developments have gone on with such rapidity that we are apt to forget the tremendous difficulties which this great development has involved. Engineers remember the great controversy that arose as to whether direct or alternating current should be used in the development of the water power at Niagara Falls. The story, in detail, of the steps in this development would be a fascinating one. It would tell of the birth of great industries, of the production of new materials, new uses for old materials and for many of our natural resources. The electrical industry had its origin in the laboratory. The physicist, the chemist and the mathematician have worked side by side with the engineer, and to this fact more than to any other is due the rapid rate at which this evolution has taken place.

It has taken a hundred years to bring the steam locomotive to its present state of perfection, but it has

ORDER OF INAUGURATION EXERCISES

INVOCATION

Reverend George Angier Gordon

ORGAN

INTRODUCTION

Frederick Perry Fish

ADDRESSES OF GREETING

For the Commonwealth of Massachusetts

His Excellency, Channing Harris Cox

For the National Government

George Owen Squier, Maj.-Gen., U. S. A.

For the Faculty

Edward Furber Miller

For the Founders

Charles William Eliot

For the Alumni

Charles-Edward Amory Winslow

ADDRESS

John Campbell Merriam

President Carnegie Institution of Washington

ORGAN: Andante from Seventh Organ Symphony

INAUGURAL ADDRESS

Samuel Wesley Stratton

ORGAN RECEPTIONAL: Fantasia in G Minor

Wallace Goodrich, Organist

taken only a third of that time to develop electric power. Twenty years ago a generator with a capacity of five thousand kilowatts was a very large machine. Today, machines of approximately ten times that capacity are being built. This is but one example of evolution in the electrical industry of which the electrical engineer and all who have worked with him may justly be proud. His accomplishment of this in the short space of two generations is indeed a credit to his profession.

Less than a quarter of a century ago, the automobile industry was in its infancy. Today, it is one of the largest. The horseless vehicle had been a dream of many years. Civilization had outgrown the ability of the horse for speed, endurance and capacity. (Imagine the number of horses that would be required to place the automobiles and motor trucks of today.) It was also the need for a more flexible system of local transportation that caused the development of motor-propelled vehicles. The perfection of the gas engine as the power plant of the automobile has made possible the tractor, the household electric lighting plant and other power-driven devices. This automobile industry, too, has called for the service of the physicist and the chemist as well as of the engineer. The industry has often been impatient and forged ahead of the laboratory, but it has then usually paid the price, or, rather, the public has. The evolution of the motor vehicle has been a bold and rapid one. The speed of it has been due not alone to the urgency of need but to the greater facilities for production granted it by previous evolutions. It has had a greater stock of accumulated knowledge upon which to draw. But it has also created new and important problems, many of which are yet unsolved. For example, the time is not far distant (if it is not already here) when the uses to which our crude oil supply is put will be restricted to those for which it alone is suited, such as lubrication. Hence, one of the greatest problems of the industry is to find a substitute for gasoline. Motors are now being made to use a heavier fuel than before and those to use crude oil are being developed. Many experiments are being made on the use of other fuels. Alcohol, if free from water, can be mixed very successfully with gasoline in large proportions. The automotive industry faces many problems in the future but its evolution will, like the others, be brought about step by step by the automotive engineer and the scientist working together, attacking problems of ever-increasing difficulty, with the more and more efficient tools of science.

The navigation of the air is another dream that has come true with an astonishing rapidity. Important laboratory investigations

and field experiments had been made during the latter part of the past century, and the first years of the present one, but no suitable power for flight seemed available. A light steam engine was being worked out by Langley and would certainly have been perfected had not the gas engine appeared as the power plant of the automobile. In 1909 all Washington turned out to see Orville Wright make the first public flights of an airplane attempted in this country. It was an inspiring sight and every person knew that it was the beginning of a new era in transportation. In 1913 nearly all Paris turned out to see Pegout ascend to a height of a mile or more, loop the loop, and perform other feats with the greatest ease. During the World War duels were fought in the air at incredible heights under all sorts of conditions. The airplane changed the art of war, and naturally aviation received a great impetus under these conditions. Nevertheless, aviation has advanced more since the war, in safety, in speed, in load-carrying capacity, endurance and efficiency than it did during it. A speed of over 240 miles per hour has been attained, endurance tests of 35 hours have been made, a load of ten tons has been carried, planes have been made to maintain a height

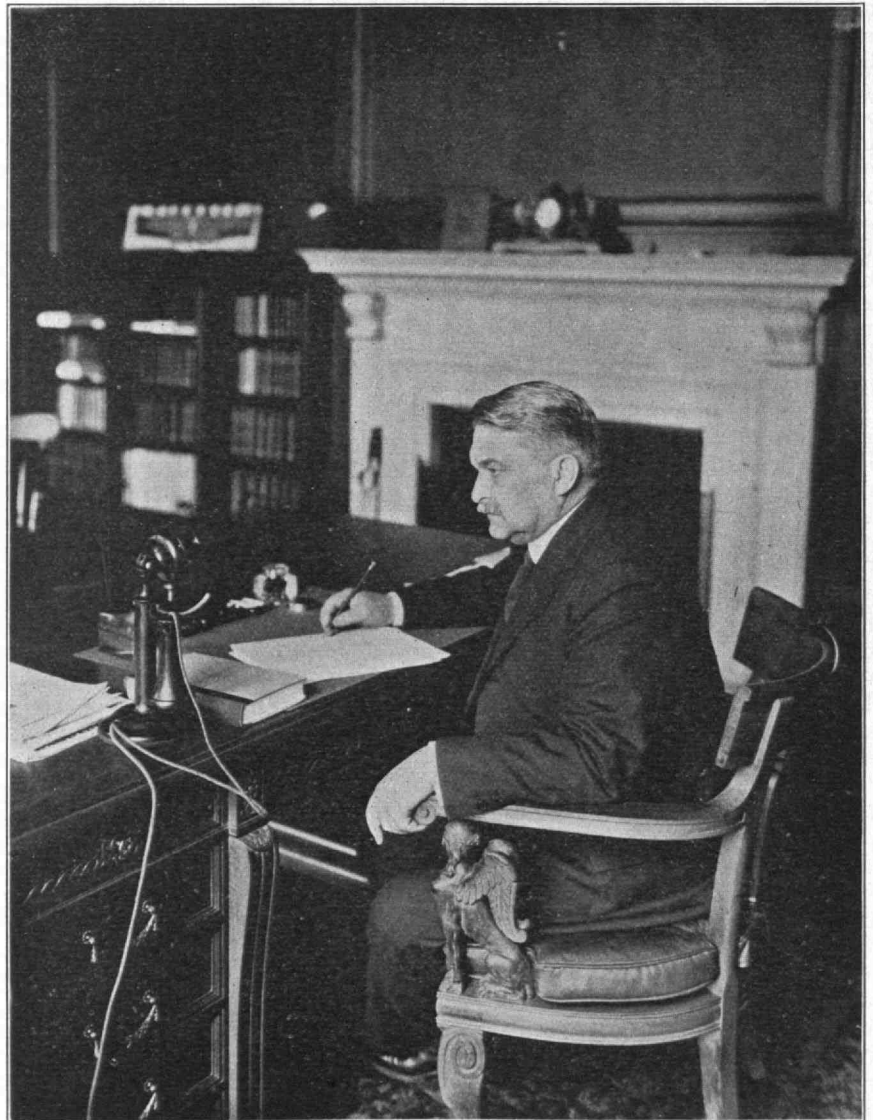


Photo by Christian Science Monitor

A recent photograph of President Stratton at his desk



Three inauguration speakers. At the left is Dr. John Campbell Merriam, President of the Carnegie Institution of Washington. In the center, Prof. C.-E. A. Winslow, '98, now of Yale,



who spoke for the Alumni. Above, Major-General George Owen Squier, who brought to Technology and to Dr. Stratton the greetings of the National Government.

of 27,000 feet, and the recent flight of an army plane from the Atlantic to the Pacific established the record for a non-stop flight. Regular air routes have been established abroad, but the air mail service of the Post Office Department is the most striking and successful example of the commercial use of airplanes. The distance that mail can be carried, between the close of business in one city and the beginning of the day in another has been tripled and quadrupled.

In many laboratories are found great wind tunnels for producing known currents of air in which may be determined the principles of aerodynamics upon which the safety and the efficiency of the plane depends. In one laboratory one of these tunnels is placed within a huge shell and operated in air of much greater pressure and density than the normal, in order to extend further our knowledge of these principles. In another, the power plant of the airplane is operated within a large, heavy-walled chamber in which the density and temperature of the air can be maintained at the same condition as is found at high altitudes. Aviation gives a striking example of the inseparability of science and technology.

This series of illustrations taken from the field of transportation demonstrates that progress will be in direct proportion to the extent to which the engineer or the manufacturer coöperates with the scientist in the initiation and prosecution of scientific research.

In the field of electrical communication is furnished another series of developments which illustrate in a striking manner the evolution of industry at a rate depending upon that at which scientific data is produced. The electric telegraph was invented by Morse in 1832, but it was not until 1844 that the first commercially successful telegraph line was built. The

telegraph soon became an indispensable factor in the development of railroad transportation and the growth of the Nation. It was so much superior to previous methods of communication

that it sufficed for a while, but then the very condition it had helped to bring about in commerce demanded a greater speed and scope than it could furnish. Telegraphy brought the countries of the world into closer commercial contact that were the separate parts of any one of them before its invention. But telegraphy soon became a common, every-day thing, and people felt keenly the restrictions of the system that first made rapid communication possible.

A month or two ago scientists from all over the country gathered at one of our sister universities to assist in the dedication of a great chemical laboratory. Only a few days ago a similar one was provided for by gift, to our near and esteemed neighbor, Harvard. Those who have made these laboratories possible are to be congratulated for their wisdom and foresight in investing funds in a manner which cannot fail to yield results of untold value to the welfare of the public and to the prosperity of the country.

In closing, let us not overlook the very finest exemplification of our motto—the leader who in the following of his profession not only accomplishes results that make other and greater things possible, but who by devotion to his work and interest in this fellow-man inspires others to begin.

Among the most distinguished leaders of this type are to be found the names of those who made the Massachusetts Institute of Technology possible, and who have carried on its work in the past. There could be no greater incentive to those who are now in charge or who are to follow them than the work of these men, so well expressed in our motto: *Alia Initia E Fine.*

The Graduation of Nineteen Twenty-Three

The Neo-formalism is given a chance to work and it works

Nothing definite is known of this, but it must have been that Professor Theodore Harwood Dillon, on the night of June 11, while others gathered in a brilliant hall for the Inaugural Banquet, stood in the open places and gazed into the sky. There must have been upon him a mood of sober pondering which lasted, at a guess, until 2.00 a.m., then to be superseded by an ineluctable anxiety. For Professor Dillon was the Chairman of the Committee on Graduation Exercises, and thus charged with the necessity of learning, by whatever lots and divinations, (and by 2.00 a.m. as well) whether at 11.30 on the morrow, it would rain, or it would not.

It was a difficult problem. The sky, gazed into, gazed back, but with no frankness. Never was a sky more silent, more unanswering, more vaguely minatory than on the night of June 11. And the day of June 11, itself, had been a meteorological hangfire. Not a bad day, but not a good. Mists. A pale sky. Humidity. A veiled threat for the future.

Yet, the question had to be answered. If it were to be Rain, then the Graduation Exercises for June 12 were to be held in the Cambridge Armory, wherein platforms, chairs, draperies and amplifiers must be set — beginning at 2.00 a.m. But if it were to be Not Rain, then the Exercises were to be held in the open, in Eastman Court, and the platform, chairs, etc., must be installed there, instead — again beginning at 2.00 a.m.

The Weather Bureau had been useless. It would neither deny nor confirm, comfort nor warn. There might be rain; there was a good chance of it. But there might not be; there was also a good chance of that. The official verdict was Unsettled, meaning that the Bureau would remain officially unastonished at showers, thunderstorms, floods, seismism, or a



Photo by H. B. Cuthbertson

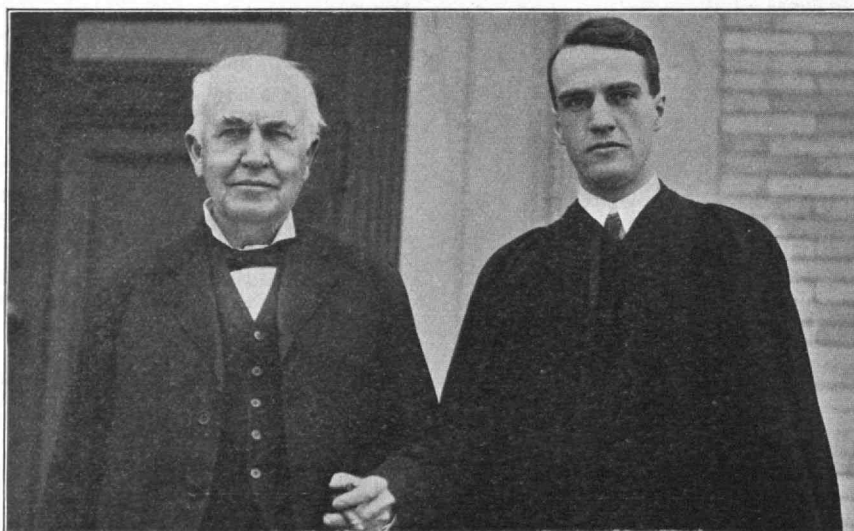
A GRADUATION CLOSE-UP

Dr. Stratton awarding the degree: Professor Merrill, Secretary of the Faculty, at the desk

ated the sun shone, and a great wind blew, that snapped tent poles and would have blown gowns to shreds and caps to the Charles, if gowns and caps had been there to blow. But for the Class of 1923, decorously robed, there was no wind, and a smoky fog closed down on Cambridge. Perhaps, more accurately, it was a foggy smoke, for the sun shone through it redly. At any rate, there was some sort of cycloramic gauze in the middle distance, which though it permitted the Weather Bureau to justify its vaticination of Unsettled, did nothing to harm the ceremonies or the spectators.

The ceremonies began at 11.30 when the Faculty, which had assembled in Eastman Hall, marched through the Main Facade to the platform. All members were in cap and gown. For the second time in two days, the Neo-formalism was given a chance to

work and it worked. Never before had the Faculty turned out in such large numbers or in appearance so swept and garnished. Never before had so few men of the Senior Class stayed away. Never before was there such evidence of skill and order in arrangement, taste in thought and plan. There were no intoned theses abstracts. There was no wild scramble for degrees. The ceremony was scarcely recog-



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THE EDISONS, Père and Fils

It was esteemed an uncommon good joke that Theodore Miller Edison, '23, should have bestowed upon him, in his father's presence, the degrading badge of the college man

nizable to a veteran as a Technology graduation. It was meant not to be.

After the Faculty was safely on the platform, the Graduating Class, having formed in Lowell Court, and been alphabetically sorted by the sedulous marshals, marched across Eastman Court to their seats by (as customary for processions) the longest route possible. The fitting strains of the Coronation March of Meyerbeer's "Le Prophet" kept them in step. Music, you see. Another innovation. By the Coast Artillery Band.

After the seating of the class, the actual ceremonies were begun by Harry J. Carlson, '92, former President of the Alumni Association, with a short address of greeting to those who, by virtue of the exercises, ceased to be old students and became brand-new alumni. The Right-Reverend Charles L. Slaterry, Bishop-Coadjutor of Massachusetts, offered the invocation.

After another short interval of music (it was not now the Coronation March, but what was it?) came the address of Elisha Lee, '92, Vice-President of the Pennsylvania Railroad. Mr. Lee outlined the development of science and industry, and predicted even greater development in the next half century. "You are to be deeply congratulated," he told the seniors, "upon the fact that you are starting your active careers in the most interesting and stirring period of the world's history."

"I realize that we are only at the beginning of the new era which science and technical knowledge are creating, and I can scarcely avoid a feeling of envy for the limitless opportunities which lie before the generation to which you belong."

Mr. Lee urged the Tech men to take an active interest in the political life of the Nation. "And bear in mind," he said, "the better you are educated, the more completely you are trained and fitted to lead others in the complex affairs of our modern industrial life, the more urgent becomes your duty to do your part in giving intelligence its proper weight in our political affairs by voting at every election in which you are eligible."

Mr. Lee's speech was followed by one from Major General André W. Brewster, Commander of the First Corps Area. A further military tinge was lent the day by the award of 102 commissions in the Reserve Corps to students who had completed the advanced requirements of the Department of Military Science and Tactics. Their gowns, these young men wore over the conventional whipcord, like General Pershing receiving another LL.D.

From the journalistic angle, the real news of the day happened next. President Stratton announced that the Class of '93 had just finished its 30th Reunion in a burst of glory by subscribing \$100,000 to Tech-



Photo by H. B. Cuthbertson

ANOTHER GRADUATION VIEW

Showing both Faculty and Spectators. Thomas H. Edison is among the latter, but you can't see him

nology for a new dormitory unit. But news of that is elsewhere conveyed in this issue, and this account will not deviate further from its business of getting 1923 graduated.

The actual award of diplomas came next. And this year, it was really an award: not a hand-out.

Each man of the still carefully alphabetized class marched to the platform, ascended a runway in which the Shuberts could have taken pride, approached the Presidential position, and received from the Presidential hand, that for which he had spent four years of more effort or less. Then he marched down another runway, quit of Technology forever, if he wished it so.

When the last man of the last course had marched down again, the count showed that 173 graduate students and 545 undergraduates had received their degrees — and the 56th Commencement was over. The Class of 1923 broke ranks and spread like mist that is scattered by a wind.

The 3000 spectators rose up and went away. Eastman Court was deserted again and workmen came upon the scene to dismantle the platform and lug away 3000 chairs. Now was time for the cyclic sadness to descend upon professors sentimentally inclined. More water over the dam. Another Senior Class now, and more to follow behind it — forever and unchangingly young. Classes grow never older for they move as fast as time. But the Professor does not, and perhaps there were some of them who worried at this.

Some. But a discerning eye could doubtless have sought out at least one who was not — one from off whose heart was lifted so great a load that although still he gazed into the sky, it was beyond him to mask a grin of triumph at it. If his lips moved a trifle (we did not see, and so we cannot know) one might hazard the guess that he was addressing gods and weather bureaus, urging them that if they wished it to rain, let it then, and who did they think would care?

Louis Derr: 1868-1923

For thirty-one years a member of the Institute Faculty

Louis Derr, '92, Professor of Applied Optics and Photography, died at his home in Brookline on

May 11. He was actively engaged in his work of teaching at the Institute until a few weeks previous to his last illness. In his death, the Department of Physics loses one of the senior members of its staff, who has been connected with it for over thirty years.

Professor Derr was born in Pottsville, Pa., on August 6, 1868. He prepared for college at the Pottsville High School. Entering Amherst College in 1885 he graduated in the Arts Course with Phi Beta Kappa honors in 1889. He then matriculated at the Massachusetts Institute of Technology in the course of Electrical Engineering, and graduated in 1892, receiving in the same year the degree of Master of Arts from Amherst College. Upon completing his Institute course, he was at once appointed Assistant in the Department of Physics, continuing his studies at the same time in the Graduate School of Harvard University. He was raised to the rank of Instructor in 1893, Assistant Professor in 1901, Associate Professor in 1904, and full Professor in 1909, which position he held until the time of his death.

During his long term of continuous service, Professor Derr devoted himself to numerous lines of work, always undertaking cheerfully whatever duties or courses the exigencies of the Department of Physics most required. He taught general Physics both in the recitation room and laboratory, and in later years divided the work of the experimental lectures in Physics with Professor Cross. He continued to give these lectures after Professor Cross' retirement. As a demonstrator he was a worthy successor to his teacher and colleague; his lectures were notable for the elaborate and elegant manner in which they were illustrated. While the course in Electrical Engineering was administered by the Department of Physics, Professor Derr gave the work in dynamo and transformer design, and designed many novel and valuable pieces of electrical apparatus for the department. He also originated and gave for many years a course on calculating machines and the use of the slide rule at a time when the matter of

By H. M. GOODWIN, '90, Ph.D.

Professor of Physics and Electrochemistry

efficiency in computations was far less generally recognized than at present. The particular field of

science in which he was most interested, however, and which he made his own, was photography and geometrical optics. His treatise on photography is well known, and his lectures on this subject always attracted a large class of students who usually took the subject as an extra elective.

Professor Derr gave unstintingly of his time to the work of those faculty committees of which he was a member, serving for a number of years as chairman of the Committee on the Tabular View and of the Committee on Rules. Although a strict constructionist and a man of very decided opinions, he was fair and just in his decisions.

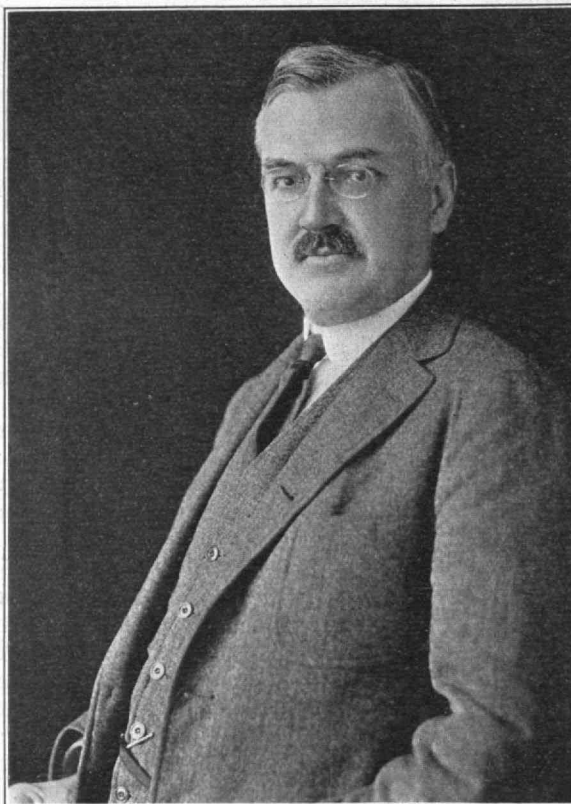
In addition to his regular Institute duties, Professor Derr gave for a number of years at the Institute the instruction in Physics to students in Boston University, to the students of the Boston Normal School of Gymnastics, and to the evening classes in the Lowell School of Industrial Foremen.

Professor Derr was a Fellow of the American Academy of Arts and Sciences, serving at one time as chairman of its house committee, and at the time of his death as chairman of the committee on publications. He was also a Fellow of the Royal Photographic Society of

Great Britain, and a member of the American Physical Society and of the Optical Society of America. He was a member of the University Club of Boston and of the Delta Upsilon Fraternity.

Professor Derr was married in 1903 to Miss Jane E. Coy of Little Rock, Arkansas. He is survived by Mrs. Derr and an only son, Thomas S. Derr, '19.

We, who for so many years were associated with Professor Derr in the common endeavor to develop and strengthen the work of the Department of Physics, mourn the loss of a friend and honored colleague. He gave the best years of his life conscientiously and enthusiastically to the work of Technology. Although he came to us a graduate of another institution, his loyalty to the Institute, and his belief in the maintenance of its best traditions, could not have been deeper.



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LOUIS DERR, '92

Professor of Physics, whose death occurred on May 11.

Two Council Meetings

The Ninety-Seventh, on April 30, and the Ninety-Eighth or Annual, on May 28

The 30th, being the last Monday in the month of April, 1923, was the date of the Ninety-Seventh Meeting of the Alumni Council, held as usual in the Faculty dining room of Walker Memorial. Coincident with the serving of the customary integration of legumes splashed with Russian Soviet dressing, Arthur T. Hopkins, '97, was called upon as Salad Orator — an honor worthy of more than transient interest, since it was his second appearance of the season in this capacity. It will be remembered that at the Ninety-fifth Meeting President Carlson sent him in to pinch-hit for I. W. Litchfield, '85, who was incapacitated, and that Mr. Hopkins met with success by deploring the geographical location of Council meetings which were (they still are) quite inconveniently held in Cambridge. On the present occasion he told of the meeting of the Alumni Secretaries in convention at Cleveland last April. He had compared notes which made him proud of the organization of our own Alumni Association. Before the Ninety-Eighth and Annual Meeting, Mr. Hopkins acquired a cold, and lost his voice, so that he closed his speaking season on April 30 as follows: G-2, AB-2, H-2, R-O, P.C. 1000 — a record to be proud of, even in the majors.

President Frank Palmer Speare of Northeastern University, the guest of the evening, described the growth of his institution from the time of its establishment as an evening school in 1851 to its present status with a total registration of 9000 in its various branches; how first a law school was added, then an engineering, with today nearly a thousand students, and finally other branches.

E. B. Rowe, '06, reported for the Special Nominating Committee. The Council adopted his report and elected the following to the advisory councils on the undergraduate activities:

Athletics, for three years, Allan W. Rowe, '01 and Henry E. Worcester, '97; Tech Show, for three years, O. R. Freeman, '15; Budget Committee, for three years, S. G. H. Fitch, '00; Walker

Memorial, for three years, W. C. Brackett, '95; Musical Clubs for three years, D. G. Robbins, '07; for one year, Wm. T. Hall, '95.

President Carlson stated that 2086 members of the Alumni Association voted in the annual elections for Officers and the ballots of 2049 were cast, 1751 being from those whose classes had been graduated five years or more and who were thus entitled to name nominees for term members of the Corporation. The

successful candidates were:

President, for one year, George L. Gilmore, '90; Vice-President, for two years, Alexander Macomber, '07; Secretary-Treasurer, for one year, Arthur T. Hopkins, '97; Executive Committee, for two years, William Green, '05, Walter Humphreys, '97; Executive Committee for one year, Joseph H. Knight, '96; Repre-

sentatives-at-Large, for two years, Robert S. Allyn, '98; Edmund D. Barry, '95; Frank D. Chase, '00; Francis W. Fabyan, '93; Hiram P. Maxim, '86.

To be nominated as term members on the Corporation: Walter Humphreys, '97, Charles R. Main, '09, and Dr. Willis R. Whitney, '90.

Class Representatives on the Council:

'74, George H. Barrus; '79, Charles S. Gooding; '84, Harry W. Tyler; '89, Edward V. French; '94, Samuel C. Prescott; '99,



TWO RETIRING OFFICERS OF THE
ALUMNI ASSOCIATION

Above: Harry J. Carlson, '92, President since 1922.

Right: Merton L. Emerson, '04, Vice-President since 1921.



Photos by Notman

Hervey J. Skinner; '04, Merton L. Emerson; '09, Carl W. Gram; '14, H. B. Richmond; '19, George H. Wiswall, Jr.

Upon a favorable report from the Executive Committee the Council voted to have an Executive Secretary to devote his full time to the work. The action was unanimous and settled a question which has been under consideration for some time. The responsibility for the finding and the appointment of the man was placed in the hands of the Executive Committee with power. Following the vote came a discussion as to how the expenses and salary of this officer were to be met. Some members of the Council misunderstood the situation and the time consumed in discussion was lengthy but at last the difficulty was adjusted, doubts were dissipated and all was again serene. The feasible suggestions are summarized as follows: (1) that the annual dues be raised from \$3 to \$4 or \$5 per year; (2) that a greater number of sustaining members be obtained; (3) that sustaining membership be raised from \$10; (4) that a sliding scale of dues be adopted, and that the larger fee be applied to alumni who had been out of the Institute a certain number of years. This matter of ways and means was referred to the Executive Committee for report at the next meeting.

The hour was approaching the 10 p.m. adjournment time and a number of reports were consequently eliminated from the program and others shortened. Dr. A. W. Rowe, '01, gave a brief progress statement about the plans for the reapportionment of Walker Memorial, prefacing his remarks by a few complimentary phrases for the Choral Society; O. B. Denison, '11, requested explanation as to why a larger number of alumni did not attend the April 18 Smoker and Circus, and, speaking for the Committee on Assemblies, asked if his committee was to blame; F. H. Hunter, '02, queried the chair on the too-long-dormant matter of alumni visiting committees for the various departments and seemed pleasantly surprised, as were many others, to learn that President Stratton had appointed such committees already. Adjourned.

The Ninety-Eighth and Annual Meeting on May 28 began with less than the usual number of members present, but the attendance was augmented from time to time by many familiar faces and some less familiar.

During the early courses of the dinner a mimeographed sheet was distributed, bearing the names of possible candidates for three vacancies on the Nominating Committee for the ensuing year and Secretary Humphreys asked the members to "vote on nominations for nominations to the nominating committee." Six names were to be selected and then another ballot was to choose three of these for the openings. The customary tie resulted, eight names being placed on the ticket, and from these the Council selected: H. J. Carlson, '92, Walter Humphreys, '97, and D. G. Robbins, '07.

Taking a leaf from the Secretary's book the chair in calling on Mr. Winward Prescott (who attended as a member of the Advisory Committee on Undergraduate Publications), to orate with the salad, said that since Mr. Prescott was in charge of *E 33*, the Institute's course in Report Writing, he wanted him to "report on the reports of the reporters in his report writing class." This seemed a happy choice. Mr. Prescott was new to the Council; his remarks were refreshing, and the dining-service had actually provided fresh lettuce as the salad. Mr. Prescott, after telling about his course, concluded by asking those present to make additions to his library by sending

samples of engineering reports which they had made in their professional work.

No sooner had he finished than the first of the evening's reports, that of the Nominating Committee, was presented by J. P. Munroe, '82.

For membership upon the Standing Committees of the Association they designated: Assemblies, O. B. Denison, '11; Historical Collection, J. P. Munroe, '82; Permanent Funds, F. R. Hart, '89; Publication of The Technology Review, K. Reid, '18.

It was moved, seconded and unanimously passed that the report be accepted and placed on file.

Alexander Macomber, '07, being in haste to depart, followed Mr. Munroe and read the report of the Advisory Council of Tech Show which appears in full on page 438. The paragraph immediately preceding describes the action taken on this report. Next came Walter Humphreys' report as retiring Secretary and Treasurer:

Statistics and amounts mentioned in this report cover the fiscal year ending Dec. 31, 1922, unless otherwise stated.

Membership: The membership of the Association on January 1, 1922 was 8931. This has been increased by 86 graduates in January and 709 graduates of the Class of 1922, and also 117 additional graduates who received their degrees in October and by 202 elected members. The number has been reduced by the death of 45 members and 39 who were dropped from membership because of the non-payment of dues and 9 who resigned from membership, thus making a total membership on January 1, 1923 of 9972. Of this total membership, 386 are Life Members, a gain of 12 Life Members during the past year. Of the deceased during the year, 3 were Life Members. In the election of Dr. Samuel W. Stratton, the new President of the Institute, as an honorary member, the number of such members is now 13. The increased number of Associate Members during the past year is due to the splendid coöperation of The Technology Review in the drive for membership which was made in the summer, thus increasing also the subscriptions to The Technology Review. The successful drive made with the Class of 1922 for membership and subscriptions to the Review is to be repeated, we trust, this coming June.

During the last year the Council has lost one member through the death of Frank W. Hodgdon of the Class of '76.

Dues: During the year dues were received from 4277 members, being 43% of the total as compared with 44% of last year, or the payment by 3914 members.

Meetings and Topics of Discussion: The season began with the 92nd meeting. There have been seven meetings of the Council with an average attendance of 45. Once, during the season (March), a joint meeting with the Faculty Club was held, at which 86 were present, including members of the Faculty Club and 65 members of the Council. At this meeting the question of Student Government in Dormitories, Broader Education for Technology Graduates and Additional Dormitory Space were the topics of discussion. At the November meeting Colonel R. S. Allyn spoke to the Council on the need of a home for the Technology Club, of New York and a Committee of three was appointed to consider the problem of Dormitories. At this meeting, Dean Talbot made a report upon the work of the Institute. Mr. F. W. Allen, in charge of Publicity at Harvard University, addressed the Council at another meeting upon the problem of Publicity. He was followed by Mr. C. M. Stow, in charge of the Publicity of the Institute. Dr. Frank P. Speare, President of Northeastern University, addressed the Council at the April meeting and told of the development of Northeastern University.

Recommendations: During the season the Council has seen fit to make formal recommendations to the Corporation. In January the Alumni Association urged that a formal inauguration for the new President be held and that at this inauguration academic dress be worn.

At the February meeting the Council voted its approval of the general plan presented at the January meeting for the housing of undergraduate publications and authorized the appointment of a committee of three to report to the Council upon the details of this plan and it further voted that it was the sense of the Alumni Council that the erection of a new and adequate gymnasium on the present Institute property and in immediate proximity both to the Educational Building and the present athletic plant shall be made an integral part of any plan which may be formulated for the erection of dormitories for the student body.

General Meetings of Alumni: The usual Annual Dinner was held in January and at this meeting the student musical organizations assisted in the entertainment. An additional meeting of alumni was held, subsequent to a vote of the Council, in April in the form of a Smoker and Athletic Carnival and Circus at which 354 were present.

Reports of Committees: During the past year the Committee appointed to consider the question of an Alumni Director made report to the effect that in place of a director as originally discussed that a paid executive secretary be appointed. This matter was referred to the Executive Committee which later reported at the April meeting that the principles of this report should be accepted. The Executive Committee was granted authority, by vote of the Council, to appoint such an officer.

Trust Funds: Since 1920 the Association has held the moneys for six Trust Funds. That for The Pi Delta Epsilon Building Fund has been accepted during the past year. At a meeting of the Council during the previous year it was voted that the Committee on Permanent Funds may care for these Trust Funds, but at present it holds only the Rogers Scholarship Fund, the Alumni Fund and the Life Membership Fund. The others are cared for by their respective Advisory Councils. The money and securities are held by the Alumni Treasurer subject to the order of the Advisory Councils.

Special Votes and Changes of Policy: It was voted at the February meeting that the financial year of the Association be made more nearly coincident with that of the administration. In 1917 the Council voted to make the period of administration more nearly like the college year. Previous to this time each administration served for the calendar year. Since 1918 the new administration has taken office at a time determined by the Council after the annual meeting in May, but not later than the first of July. The financial year will be practically identical, beginning July first.

During the past year the Chair ruled that members of the Council are privileged to invite guests to the meetings of the Council. It is not understood that the ruling of the Chair during the past year conflicts with an earlier vote of the Council which was to the effect that representation upon the Council is not transferable or may not be delegated by the representative. The question was raised by the attendance of others than the regular representatives of classes and local associations. With this vote in mind, the Council may see fit, at some time when the by-laws are to be modified, to make it necessary that a representative of an organization should attend regularly or explain satisfactorily this failure to attend, in order to continue his Council Membership as the representative of a class or local association. It may be seen by the reports of attendance that some classes and associations having representation upon the Council are rarely represented.

Representatives of local associations are appointed year by year and the Special Nominating Committee that has cared for this matter recently has reviewed the attendance of these representatives. It has in this way been able to omit renominating representatives who have found it impracticable to attend Council meetings. Class Representatives, however, are elected by their classes for a period of five years and, without the active class organizations, frequently the representative is elected term after term. Such a proposal as the forfeiture of membership because of unexplained absence, may serve to give all classes active representation. Undoubtedly the time is soon coming when special arrangements will have to be made for the earlier classes. These groups of alumni may see fit to have several classes represented by one member when it is impracticable to find members of older classes who can find it practicable to attend Council meetings.

The matter of incorporating the Alumni Association has already been considered and, by the usual letter ballot, the Association has given its consent. If it seems wise to incorporate the Association, the by-laws will be reviewed in drafting the necessary by-laws for an incorporated organization. In such an event, further change in the by-laws which the Council may see fit to consider is likely to be the method of changing the by-laws. At present it seems impracticable to obtain at any meeting the requisite majority of the full membership of the Council. On this account the Council may consider a change of by-laws which will permit the approval of amendments by a letter ballot of the Council. The question of a quorum has never arisen in the 98 meetings. Should the Association become incorporated, this will have to be considered. The Executive Committee is of the opinion that it is not as yet necessary to have the Alumni Association incorporated.

The books of the Association have been examined; an Auditing Committee has been appointed and the Certified Public Accountant has made report for this Committee. Briefly, the

income of the Association for the past year was \$25,857.38; the expenditures were \$27,170.78; making a deficit of \$1,313.40.

On account of the accumulated surplus there is still a surplus on hand. The Review has now come into its own and is becoming an asset rather than a liability. The report of the Audit Committee will be made separately.

It was again m.s.u.p. . . . accepted . . . placed on file.

Dr. A. W. Rowe, '01, tersely stated that the Auditing Committee had viséed the work of Patterson, Teele and Dennis, the Certified Public Accountants of the Association, and had found it to be correct. After a breath and a half by the President, the Secretary meanwhile increasing his chirographical exertions to the utmost, the Council found that it had again m.s.u.p. . . . accepted . . . on file.

O. B. Denison, '11, read the report of the Committee on Assemblies, and the stock motion was repeated for the fifth time.

Due to Mr. Hopkins' unfortunate aphonia, D. J. Robbins, '07, read the annual report of the Committee on The Technology Review:

The appearance of the July, 1922 number of The Technology Review witnessed the final issue of the magazine as a quarterly publication in the size and make-up to which the alumni had been accustomed since Vol. I, No. 1, dated January, 1899. The first monthly number dated November, 1922 was issued on October 25, 1922 and attracted immediate attention because it exhibited a changed policy as well as format and in addition was fortunate in possessing the editorial luck to be able comprehensively to cover the election of President Stratton. Since that issue seven numbers have appeared regularly and the volume is to be completed with the Midsummer Number of next July.

No discussion of the new policy is necessary in this report since all members of the Council and the majority of the alumni body have been able to study it during the past year and must have by this time formed definitely favorable or unfavorable opinions about it or else subscribed to a state of neutral apathy. On the whole, the general reaction so far as we can learn has been one of general satisfaction as is shown by the latest circulation figures for the six months ending March 31, 1923, which are 6107 net paid average per issue. The presentation of a digest of important Technology events, the addition of departments giving undergraduate news in perspective form, the expansion of the "Public Eye" and the coöperation of the local alumni association and class secretaries, are points worthy of special mention. Practically all of the younger classes are now publishing class notes eight times a year instead of four, and the amount is in most cases more than before.

Financially the magazine began to show an operating profit after five issues and the last statement shows a net surplus accruing to the Alumni Association of \$753.23. This is the first time in its history that the year's operation did not leave a deficit to be assumed by the Association.

Although the accounting has been done by the Treasurer of the Association as before, the Review has been carried as a separate entity and the surplus above is a little less than 5% of the total net income.

The income has been from two sources: circulation, which has been mentioned above, and advertising. The response on the latter side, particularly from large national advertisers who have contracted for space on a commercial basis rather than from any personal interest, has been most gratifying. The feeling that the Review offers a character of circulation commensurable with the high order of the technical trade magazines reaches its subscribers in a personal way in the home and without the copy insertion being buried in a mass of advertising section pages, is worthy of more than passing notice.

The Committee concurs in the recommendation of the management that the situation warrants the employment of a full-time advertising manager to increase this form of revenue.

The example of the Class of 1922 for members in the Alumni Association has been followed by similar action on the part of the present Seniors and their campaign which is not completed at this date should add at least 500 to the subscription list.

It may be stated in the interests of reportorial accuracy that the customary vote took place here for the sixth time accompanied by spontaneous applause, which was resumed with increased vigor when Pro-

fessor R. H. Richards, '68, rose to read the report of the Committee on Permanent Funds:

The Committee on Permanent Funds makes the following annual report:

The Trustees hold for the Alumni Association three funds: The William Barton Rogers Scholarship Fund; the Alumni Fund of 1880; and the Life Membership Fund. The Capital accounts of these Funds, as noted by the report examined and approved by the Auditors, under date of December 31, 1922, were as follows:

ASSETS	
Cash	\$3,598.57
Securities	22,686.25
Personal Notes, Receivable	10,395.00
Life Memberships	600.00
Income in Suspense	200.97
	<hr/> \$37,480.79
LIABILITIES	
Rogers Scholarship Fund (Capital)	11,836.01
Rogers Scholarship Fund (Loan Account) .	13,358.31
Life Membership Fund	11,027.83
Alumni Fund	1,258.64
	<hr/> \$37,480.79

The Life Membership Fund has increased during the last calendar year by \$600.00 from Life Membership fees and \$355.12 from income on investments. The Alumni Fund has gained the amount of \$40.00 only by income from investments and \$30.44 from a gift (Tech Club of Charleston, W. Va., giving up their charter). The Alumni Fund has been drawn upon by resolution of the Executive Committee of the Alumni Council for \$175.00 to further the representation of Technology in the flying contest in France last summer when a representative of the Aero Club of the Institute entered in competition with representatives from other countries. The Rogers Scholarship Fund Loan Account has increased to the amount of \$1,128.21. Ten per cent of the gross income of this Fund and ten per cent of loans repaid is credited to the Capital Account each year by vote of the Trustees.

During the calendar year of 1922, \$3,550.00 was lent to 21 individuals. Of this amount, \$350.00 was paid back during the year. During the calendar year, \$1145.00 was collected on former loans.

The Committee has reviewed the condition of the outstanding notes and feels content with the present condition, but is desirous of having even a larger amount promptly paid back by the beneficiaries.

President Carlson announced the unanimous acceptance of the report (which would be filed) and then called on Dr. A. W. Rowe, '01, whose report, as Secretary of the Advisory Council on Athletics, appears on page 439. He varied the custom and did not read the report from manuscript, but spoke extemporaneously, noting in particular the regret of the Advisory Council at the loss of Mr. Frank M. Kanaly, coach of the track team, who had just resigned to go to the University of Maine.

When Dr. Rowe's report had received the customary prescription, the chair called on John Batchelder, '90, for the Boathouse Committee, who opened by paying a glowing tribute to the preceding speaker. The report appears on page 440. It was ordered filed with the formal ritual.

Mr. Winward Prescott, having earlier proved the worth of his oral panoplies, was content simply to read the report of the Advisory Council on Undergraduate Publications, reproduced on page 436. Same motion, same result.

Since Professor E. E. Bugbee, '01, was absent, his report as Chairman of the Advisory Council on the Musical Clubs was read by the Secretary. It appears in full on page 437. The meeting treated it with scrupulous impartiality and it now reposes without a dissenting vote in the tome of minutes.

The Advisory Council on the Budget was represented by Arthur R. Stubbs, '14, the report being:

Your committee, after considering how to attack its rather large and intangible problems, has felt that its primary purpose

is not to perform an audit or set up a system, but to satisfy itself that (1) the operation of student activities at the Institute financially is in accord with modern business practice and the maintenance of high credit; (2) that adequate checks are provided so that all funds and especially those of the Student Tax are actually used for the purposes intended and in accordance with the appropriations made; (3) and that the benefits of past experiences are made available for the perpetuation and healthy future development and finance of useful student activities both professional and social.

The financial operation of all student activities has been placed on a greatly improved basis during the last three years and particularly during the current school year. This recent progress is in a great measure due to the initiative shown and efficient work done by the Chairmen of the Undergraduate Budget Committee and of the Undergraduate Finance Committee, and the close coöperation that has existed between these two men. In spite of a substantial expansion in gross business of all the activities and in the number of organizations engaged, these men have set up a satisfactory arrangement to make both ends meet; for protecting the credit and name of Institute organizations; and for adequately auditing and controlling the execution of the program as designed by the activities themselves. The result has been that none of the activities, on the information available at this time, will close the year with a deficit or with bills unpaid with which their successors must contend. This attests the careful preparation of programs and efficiency of the methods of operation now in vogue, also the coöperation of the larger activities in turning in monthly operating data and balance sheets on standard forms. All operations impress us as up-to-date and in line with the best practice.

The system of budgets and frequent periodic reports is sufficient, we are convinced, adequately to control disbursements. One of the members of this Committee has been a member of the Committee appointed by the President to oversee the administration of the Undergraduate Dues and has been in close touch with the disbursement of this money, now aggregating over \$25,000 annually. The Committee was especially impressed with the business-like manner in which records and files were kept and also the handling of the budgets. Details of control are therefore satisfactory.

The good work done by the students the past year has been due to the training of judgment gained by previous experience. The results of such good work should be crystallized, in the opinion of the Committee, in the form of continuous orderly records for future reference; a book of governing principles constantly kept up-to-date; and a satisfactory and continuing method of choosing successors to the present efficient Chairman. Your committee believes that lack of continuity in the choosing of experienced successors is a weak spot in the current system and recommends to the Institute Committee that it take steps to insure the filling of the positions of Chairman of the Undergraduate Budget Committee, and the Chairman of the Undergraduate Finance Committee with men who have had previous experience on the committees and who shall take office before the previous incumbent leaves college, say in the spring term, thus obviating lost motion and repetition by taking advantage of the benefits derived from accumulated knowledge and training.

After considering the background and general status of Institute activities, your Committee concludes that student affairs are in generally excellent shape from a financial standpoint.

In closing, the opportunity is taken to voice the conviction that work in an undergraduate activity is of greater value than ever before in training the Technology man. These activities have increased both in size and scope during the past few years, and their successful operation calls for an ever-increasing amount of skill on the part of the men selected to run them. They require the same qualifications that the business world at all times demands. Under present methods there is a great opportunity for students to develop initiative, to acquaint themselves with modern business methods and to acquire valuable experience that is supplementary and secondary only to the regular classroom and laboratory work at the Institute.

The unqualified stamp of approval was placed on the report and the filing designation recorded.

The Secretary reported that the Executive Committee had deemed it inexpedient to raise the annual dues for regular members, but wished to make the dues for sustaining membership "\$10 per annum or more." They had previously been exactly \$10. The Council concurred.

The Executive Committee had also found the man for Executive Secretary and President Carlson announced, to the heartiest acclamation, that Orville B. Denison, '11, was to give his full time to this work beginning in July. Messrs. Gilmore, Denison, and Hopkins were asked to stand. They complied, and the Council gave proper evidence of its welcome to the new officers of the Association.

Upon being asked if he had anything to propose, J. W. Rollins, '78, Chairman of the Council's Committee on Dormitories, affirmed that he not only did have something to propose, but "was ready to talk a little." He did both in reverse order and offered the following resolution, which was unanimously adopted:

Resolved: That in the opinion of the Alumni Council space for additional dormitories adjacent to the present dormitory should be assigned along the easterly border of the main Institute site and convenient to the facilities of the Walker Memorial.

And Resolved Further: That in the opinion of the Alumni Council at least one dormitory unit for seventy-five or eighty men should be begun early this summer, provided the necessary funds can be found.

Since that time, this expressed opinion has been realized in a manner recorded elsewhere in this issue.

Dr. A. W. Rowe, '01, then told of the findings and the wishes of the Committee appointed to consider changes in Walker Memorial. The report follows:

The Alumni Council of the M. I. T. Alumni Association wishes to present to you the following facts and recommendations:

1. The Walker Memorial was designed for and dedicated to the use of the Student Body of the Massachusetts Institute of Technology.

2. Since its erection the various activities housed therein have grown greatly so that present facilities are wholly inadequate.

3. It is of basic importance that the Walker Memorial remain the center of all of the general student activities.

4. To provide for present necessities, and allow for reasonable future growth, some sweeping change must be made.

5. Of the many interests now centering in the building, but one can be moved without serious detriment, namely, the athletics in the gymnasium.

6. By freeing this space, remodeling and re-apportioning the area thus made available, not only can all of the other student activities receive ample provision, but yet other activities now housed outside can also be provided for.

Therefore

It is respectfully requested that the following changes be authorized and carried out:

1. The second half of the seaplane hangar be transformed into a gymnasium according to plans appended.

2. The Field House be increased in size to provide additional locker and bathing space to replace that given up by athletics with the relinquishment of the gymnasium.

3. The space thus freed in the Walker Memorial, namely, the gymnasium, the adjacent locker and bath rooms, the hand ball courts, etc., be remodeled and re-apportioned according to plans herewith submitted.

An initial estimate of the total expense involved as originally computed is as follows:

Hangar	\$ 24,000.00
Walker Memorial	103,000.00

Total	\$127,000.00
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This original estimate can be modified, as shown in the appendix, to reduce the gross expenditure to a sum less than \$100,000.00.

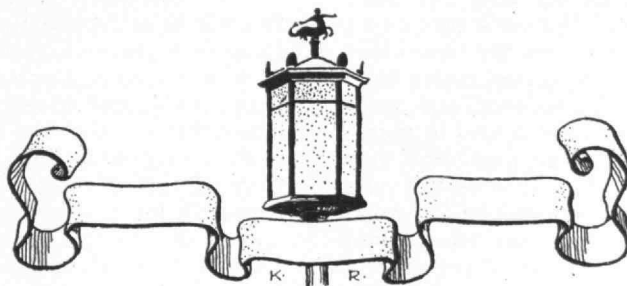
Assuming the cost to be this amount, namely, \$100,000.00, the several activities, most nearly concerned with the change, have voluntarily offered to pay \$40,000.00, or 40% of the total cost. The apportionment among the several activities will be based upon the additional space facilities offered to them under the revised plan.

Conclusion

The Advisory Councils of the several activities have declared their approval of this plan, namely, the assumption by the student activities of an obligation of 40% of the cost of the changes, to be paid as shown in the accompanying sheet.

The Alumni Council of the M. I. T. Alumni Association formally votes its approval of the plan as here offered, and respectfully petitions the Executive Committee of the Corporation to authorize it being carried into effect at once, transforming the hangar during the summer and remodeling the Walker Memorial during the fall.

The Council having given its approval, the Chair hinted at adjournment. F. H. Hunter, '02, stimulated by this, again burst into righteous indignation about the Alumni-Visitors-to-Institute-Departments proposition. These had been appointed, so he had been told at the Ninety-Seventh Meeting, and now it seemed that through some oversight an ancient committee was left without a job. Mr. Hunter could not recall the names of the committee and his information seemed to be all that was extant. However, the Council was in a generous mood; it gracefully discharged the unknown committeemen and added thanks to the blessing for good measure. After some mention of the future prospects of the Choral Society and a discussion of foreign and American cinema equipment, the Chair took no more chances and declared the meeting summarily adjourned *sine die*. The Council had rounded out another year.



"A Life of Francis Amasa Walker"

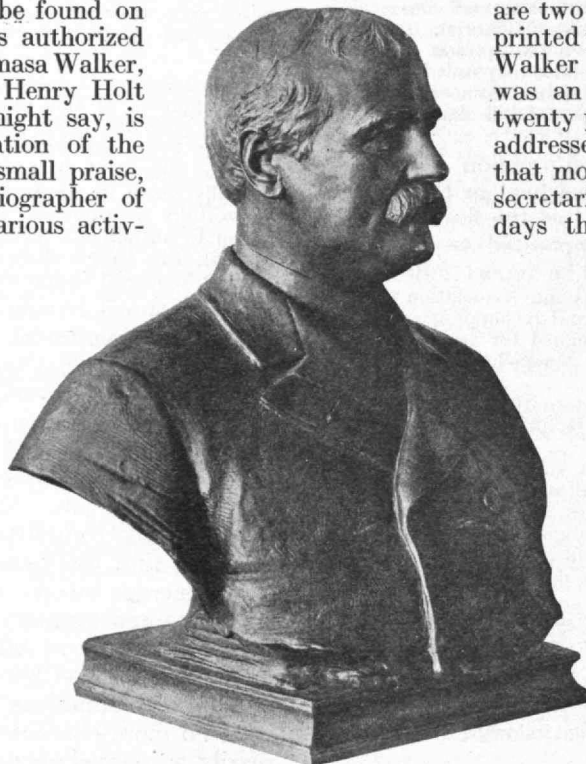
Concerning James P. Munroe's biography of the Institute's Third President

"He was distinguished alike as a soldier, as a civil servant (in charge of the U. S. Census), as an administrator in charge of a great educational institution, and as an economist of originality and wide influence. Such a combination, as it were, of four careers, all notable, was astonishing to us of the Old World; and even in America, where professions are not so sharply marked off from one another and where men are more versatile, it must have been almost unique . . ."

The foregoing, quoted from a distinguished British economist, will be found on page 345 of James P. Munroe's authorized biography of General Francis Amasa Walker, published this past month by Henry Holt & Co. The whole book, one might say, is but an expansion and illustration of the paragraph. This may seem small praise, but when one visualizes the biographer of this life of incessant and multifarious activity driving four-in-hand, so to speak, throughout the volume, even the most casual reader can not but admire the skill with which the reins are handled, and the course directed. The lives of President Maclaurin or even of William Barton Rogers, would be, one fancies, far easier to write, channelled as they were more narrowly if not more deeply, than this of the great, Protean, third president of the Institute of Technology.

We have already that full, rich biography of President Rogers by Professor Sedgwick, containing as well the fullest account of the beginnings and the early years of Technology; we are to have, one hopes, and soon enough to avoid the difficulties under which Mr. Munroe labored, the story of Richard Maclaurin, the Establisher, as Rogers, was the Founder and Walker the Preserver, of the school. But Mr. Munroe's opportunity has been greater, as his task has been proportionately harder. General Walker's service as President of the Institute was, roughly speaking, about half of his active life; and even that latter half, although he gave to Technology full measure and overflowing of labor and devotion, was given also to many other duties of greater scope and reputation if not of greater accomplishment. This Mr. Munroe has very clearly recognized. To have concentrated on the work for Technology would have been to lose the opportunity of writing a biography sure to be of permanent national and even international interest, of a life which was of no small importance in that crowded generation of expansion from the Civil War to the Spanish War. In this way, the story of Technology in its difficult years, with all that it stands for, will reach a far larger audience than could otherwise be hoped for.

By ROBERT E. ROGERS
Associate Professor of English



FRANCIS AMASA WALKER
The bust done by Daniel Chester French, '71

It is only fair to say, then, that except to Institute graduates and friends the most absorbing and valuable portions of the book will be those chapters dealing with the Civil War, the Census, and General Walker's later work in economics, especially the question of bimetallism in its connection with the presidential campaign of 1896. Into these matters such a notice as this can not go in any detail. To give the barest idea of the accomplishment of these years one need only mention that at the end of the book are two appendices; one, of five closely printed pages, a list of the offices General Walker held and the societies of which he was an active member, the other, of twenty pages, a bibliography of his books, addresses and articles. And we are told that most of this work was done without secretarial help, in long hand, in working days that often extended far into the night. He was only fifty-six when he died. No wonder.

Because of the belief of General Walker's family that his life should not be written until twenty-five years had rendered verdict upon its achievement, and because of another belief (of the General) that letters should be destroyed when answered, Mr. Munroe worked under unusual difficulties in the way of gathering the usual kind of material for a volume of this sort. Yet on looking back at the book after a first reading the chief impression is that it is a mosaic, that wherever possible, and it seems to have been usually

possible, the biographer has stood in the background and told his story by extracts from letters, from reminiscences and estimates of others, and, most frequently, from General Walker's own writings.

The best result of this method is to be found in those long and fascinating chapters on the Civil War, those four years of efficient, arduous, gallant endeavor in which a green boy of twenty-one, just out of Amherst, rises from sergeant-major to Brigadier General, fights through the war with the famous Second Corps of the Army of the Potomac, is called the best Adjutant General that Hancock ever knew, is badly wounded, captured, escapes, is recaptured, is paroled from Libby, and on the eve of Appomattox has to resign, a physical wreck. A month or two later he is brevetted Brigadier General; a few months later still he is learning to be a journalist and teaching Latin and Greek at Williston Seminary. He lost no time in beating his sword into his ploughshare. These chapters are, of course, the most charming in the book, as interesting as any finely written historical novel and, in Walker's own story of his capture and escape, of much the same quality.

The virtue of this method of self-effacement, of relying almost entirely on documentary evidence, is that we have a feeling as we close the book that here is the man, seen as himself and others saw him, recorded justly and exactly from contemporary sources, with almost none of the editorializing, that biographer's bias which vitiates so much work of the kind. The defect is that that we have to piece together our picture of Francis Walker as a man from many fragmentary details. The one thing we miss in the book is a chapter, without quotations, of Mr. Munroe's own, which will give us a picture of the man, a composed portrait strained through one memory and one judgment and appreciation. Literary, perhaps, but enormously worth doing and worth having.

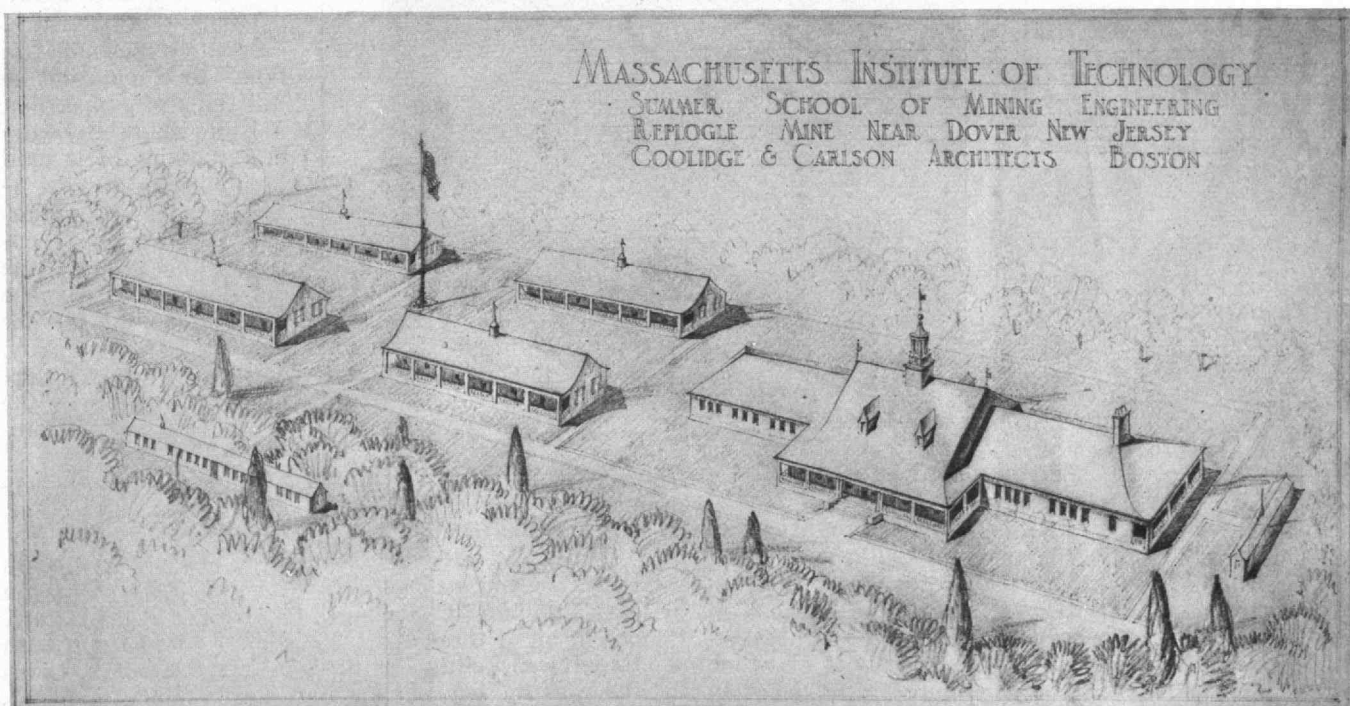
The very glimpses one gets makes one long the more for this. An erect, soldierly, vigorous figure, with vivid, swarthy face, dignified by a silk hat; an athletic figure breaking up a Freshman-Sophomore rush with his own right arm; a hot, well-controlled temper, a vigorous, expressive, unconventional vocabulary in private speech and letters, a lover of babies and young people, an enormous worker, smoking strong cigars and "using freely" (his own words) wine and spirits, yet meticulously abstaining from both around the Institute as an example to his young men, a great traveller loathing travel, a constant speaker who called speech "the meanest faculty of man," a scientist who thought out his positions and held to them, in the teeth of controversy and unpopularity . . . these are some of the hints one gathers at random, here and there, that make one ardently wish that one so near to him as Mr. Munroe had let himself go and, like an American Strachey, without the malice, had given us somewhere in this long crowded marshalling of facts and opinions at least one chapter which should be all his own.

But, after all, it is in five chapters out of twenty-two that we of Technology find our greatest interest. They are Chapter XII, Earlier Years at Technology; Chapter

XIII, Strengthening the Institute; Chapter XX, Later Years at Technology; Chapter XXI, Athletics and Autonomy; and the last, Chapter XXII, A Deathless Memorial. The two latter, though perhaps an anticlimax if one regards the book as the record of a life of public service, are, of course, the fitting climax to the work of the Preserver of Technology. Outsiders may not understand Mr. Munroe's emphasis toward the end on the ideas of student activities and student government or in his picture of the Walker Memorial as the General's most lasting monument, but the Technology man realizes that there, after all is said, is where that long and busy life of high achievement for his country, his fellows, and his boys is best remembered and where, perhaps, it still bears most fruit. The Civil War is being forgotten, later and better Censuses have been compiled, economic theories and teachings however sound and influential are being scrapped in these days of radically new problems, but the work of an educational institution is continuous and self-perpetuating and a seed planted there has perhaps the best chance, in all places of earth, of growing to splendid fruition.

So it is, undoubtedly, that Mr. Munroe at the end of his laborious, just, and illuminating book, has set General Walker's love for his students and his work for them and the undreamed-of perfecting of that work in the present Technology as the crown of a life of great usefulness to America and to the world.

Mr. Munroe has long deserved well of Technology, as a devoted servant, an enthusiastic alumnus, a wise counsellor, and a warm and genial friend. He has never deserved better, (though it is rash to say that he will never deserve better) than in this book, obviously a labor of love, which records so self-effacingly, so exactly, and so completely the life-story of a man without whom the Massachusetts Institute of Technology and the American nation would have been vastly poorer in knowledge, in ideals, and in accomplishment.



A NEW SUMMER CAMP FOR THE INSTITUTE

Buildings now under construction at the Replogle Mine, N. J., for Technology Mining Engineers

TECH MEN IN THE PUBLIC EYE

GEORGE K. BURGESS, '96

Dr. George K. Burgess, Chief of the Division of Metallurgy, Bureau of Standards, has been appointed by President Harding director of the Bureau of Standards, succeeding Dr. Samuel W. Stratton, who left last December 31 to become president of Massachusetts Institute of Technology.

The new director of the Bureau of Standards comes from Massachusetts, where he graduated from the Institute of Technology in 1896. He has been with the Bureau since 1903.

By his thorough training and extensive experience in scientific affairs, Dr. Burgess is believed by the administration to be well equipped to take charge of the big bureau, which through steady growth has attained a highly responsible place, not only in machinery of government, but as a scientific aid to the American people.

Born in Newton, Mass., in 1874, Dr. Burgess received his early education there, later getting his first college degree from M. I. T. For two years after graduation he assisted in the Institute, instructing in physics. From there he went to Paris, where after graduate work he received the degree of Doctor of Science from the University of Paris. Dr. Burgess, returning to America, was instructor at the University of Michigan for one year, at the University of California for two years, following which he came to Washington in 1903 to enter the Bureau of Standards. Placed in charge of pyrometry, or the science of heat measurement, Dr. Burgess developed this work out of which grew later the Division of Metallurgy, established in 1913, with one man. That division, of which Dr. Burgess was chief before his appointment, grew steadily in

size and usefulness, until now it has a personnel of fifty-three men.

Dr. Burgess is a member of a number of scientific bodies. He is president of the American Society for Testing Materials and a member of the National Academy of Sciences, the American Physical Society, the American Society for Steel Treatment, the American Institute of Mining and Metallurgical Engineers, the Iron and Steel Institute of Great Britain and the Washington Academy of Sciences.

Dr. Burgess is also a member of the National Research Council and represents the Department of Commerce on the American Engineering Standards Committee, a national organization on preparing standards of engineering materials and practices. He is a member of Cosmos Club.

—Washington Star

COLEMAN du PONT, '84

Mention the name "du Pont" to a man and he will think of gunpowder. Ask him what the powder he's thinking of is used for and, like as not, he will say "military purposes." *Ergo*, by synthesis, the head of the du Pont family is the head of a large powder manufacturing company, deriving the larger part of his income from the manufacture of war munitions.

Which conclusion, however logically arrived at,

has one shortcoming. It is not correct.

You may call T. Coleman du Pont "Senator du Pont," or you may call him "General du Pont," or you may call him "Chairman du Pont." He merits any one or all of these titles. You may connect him with Republican politics in the State of Delaware, or with the construction of more and better public highways throughout the country, or with conceiving and erecting one of the two largest office buildings in the world,



Photo © Underwood & Underwood

GEORGE K. BURGESS, '96

Appointed by President Harding to succeed Dr. Stratton as Chief of the Bureau of Standards.

or with the mutualization and development of what is now America's giant among life-insurance companies. He has been active in all these walks, not as an on-looking capitalist, but as an inspirationalist and producer. You can credit him with any one of them, or of a dozen other constructive pursuits and achievements. But don't put the man down as a munitions maker.

General du Pont entered the affairs of the du Pont Powder works when the member of his family who had carried on the business up to that time died. He stayed with the works long enough to develop it from a little .22-caliber affair, engaged almost exclusively in the manufacture of explosives, to a .401 mammoth, manufacturing every conceivable type of product, from toilet articles to special material for the upholstery of automobiles—from moving-picture films to ether! Thus, Mr. du Pont transformed it from a munitions manufacturer to a manufacturer of articles in common, daily use. When he had accomplished this object, the man withdrew from the organization.

As the man's own private fortune had been, in large measure, built up before the powder-works connection; as he was only connected with the powder works long enough to transform it from that into a manufacturer of articles of general utility; and as his activities since have been as widely-flung and diverse, perhaps, as those of any other public character in this country, it is obvious how absurd it would be to set him down as a "munitions maker" and let it go at that.

It is reported that General du Pont was once approached on the subject of presidential candidacy. Judge Gary of "The Corporation," is also said to have been approached on the same subject. I don't know how far either man let the idea run before entering his refusal, but I could imagine the office being graced by far less competent persons.

—*The Magazine of Wall Street.*

CHARLES G. ABBOT, '94

A decline of between three and four per cent in the heat radiated by the sun to the earth during the last fifteen months startled the weather sharps who heard it announced by Dr. Charles Greeley Abbot, home secretary of the National Academy of Sciences, in a paper before the annual meeting of that body in Washington. He characterized the drop as "extra-

ordinary" and as the most outstanding change which has been observed since measurements of the sun's heat began in 1905. During the intervening time the sun's heat was practically normal, and the year 1921, up to November, was the warmest on record for the last fifty years.

While Dr. Abbot mentioned the coincidence of the sun's "chill" with the recent stormy winter and late spring, he drew no conclusions as to their casual connection. The cooling is due entirely to causes outside the earth's atmosphere, and presumably to changes on the sun's surface. Alterations of the sun's "spots"—apparently dark bodies of gas thousands of miles high and wide, and probably cooler than the rest of the "photosphere"—have been observed for years to have some connection with terrestrial weather. Meteorologists are now suggesting a possible damagingly cold summer and severe winter, like those of the disastrous year of 1816, when frosts occurred in June and July. But Charles F. Marvin, Chief of the Weather Bureau, and Dr. Abbot himself, refuse to become excited, and will make no predictions. Nothing like general and prolonged coolness is to be expected, for the earth's atmospheric envelope is too complicated. That the coolness reflects any change in the absolute energy of the sun is most improbable, for while the great source of our heat and light is presumed to be slowly losing its energy over a period of millions of years, this effect has not been perceptible within historic times. It has been pointed out that the past winter has been an unusually mild one in Great Britain, and in Australia the season has been exceptionally hot and dry.

Dr. Abbot, who has been internationally eminent as an astrophysicist and director of the Smithsonian Institution for many years, will continue to observe the sun's behavior until July, 1925, at least. Stations of the Institution under his direction on Mount Harqua, Arizona (5800 feet above sea level), and Mount Montezuma, Chile (9500 feet), both in desert regions above the dust and dirt of the world, are making daily observations unhampered by rain or clouds. The series of measurements of the sun's heat was begun by the late Samuel Pierpont Langley. The Weather Bureau is cooperating closely and giving careful attention to the findings.

—*Time.*



In the *American Magazine* for May, Gelett Burgess, '87, writes on *Telltale Table Manners* in his usual epigrammatic and alliterative style. He illustrates what he means. At the left, we see Lizzie-Lick-the-Spoon (alias the All Day Sucker) the ubiquitous haunter of soda fountains. In and out that spoonful will go forever, as she gazes pensively at the mirror, one load sufficing for ten

timid tastings. In the center, observe an example of the Banjo Grip of the fork, the fingering seeming to be an attempt to render a chord in G Minor. The Table Ostrich is shown at the right, together with the Booby trap or Semaphore Spoon, in his teacup. The photographs, by Lejaren A Hiller are reproduced by courtesy of the *American Magazine*.

WITH THE UNDERGRADUATES

RECAPITULATION

The close of another academic year brings in its wake the usual reports by the advisory councils which act as mentors for the several undergraduate activities. These form an excellent resumé of the year's accomplishment by these activities and the reports are consequently reprinted in full.

The reports for three alumni advisory councils follow.

ADVISORY COUNCIL ON UNDERGRADUATE PUBLICATIONS

Introduction—Work of the Council: The Advisory Council on Undergraduate Publications is greatly pleased to be able to state that during the school year 1922-23 the purpose for which the Council was formed, that of coöperation with the student publications, has been carried on with gratifying success. The members of the publication boards have appeared formally at meetings of the Council to talk over policies concerning past and future work. Furthermore, the managers and editors have constantly turned informally to individual members of the Council for help and advice. It is particularly pleasant for your Council to be able to report this since it shows that the undergraduate managers and editors look upon the Council as a body to which they can turn at any time for advice or assistance. In order to make this feeling still more strong the Council has this spring revived the old custom of having an informal dinner with each of the incoming 1923-24 managing boards recently elected in order to talk over new policies and to offer counsel and advice.

The Tech: During the school year of 1922-23 the paper has gained in circulation mainly among the undergraduates. In addition to three regular issues each week *The Tech* has put out a monthly Pictorial Supplement and a single Literary Supplement. The latter was planned as a publication open for stories, essays, poems or sketches by the students. Owing to the cost

of this supplement only one issue was put out, but this issue was so interesting that the Council hopes that if financially possible the original plan of three issues, one for each term, can be followed next year. A full report on the year's work by E. E. Kattwinkel, '23, retiring General Manager, will be found in Appendix B.

The net profits for the year are approximately \$600.00.

Technique: The 1924 *Technique* is in general form and make-up on a line with previous year books. The 1922-23 board made a number of changes in regard to printers, photographers, etc., which although attended by some financial success, were in some cases of doubtful value as regards the looks of the publication.

During the year the Institute Committee made a radical change in the method of election for future *Technique* boards. Hereafter the members of the board will be chosen not by an electoral committee but by the retiring board, their fitness for the various positions being measured by the actual work they have done for the year book. By this change the board of *Technique* is placed upon the same basis as that of other Institute activities—that is, merit and service. This change has the heartiest commendation from your Council.

A full report on the year book by D. B. Jennings, '24, retiring Editor-in-Chief, will be found in Appendix C.

The net profits for the year will be approximately \$500.00.



Photo by Notman

W. H. ROBINSON, JR., '24
New President of the Senior Class and
Chairman of the Institute
Committee



Craftsman



Craftsman



Craftsman



Bachrach

THE FOUR NEW PUBLICATION HEADS

From left to right they are W. G. Peirce, '24, *The Tech*; W. D. Rowe, '24, *Voo Doo*; D. F. Elliott, '24, *The Tech Engineering News*; G. W. Knight, '24, *Technique*

Trust Funds: On May 3, 1922 the state of the various funds for which the Council is trustee is as follows:

	Cash	Securities and Accrued Interest	Office Property and Equipment Depreciated Book-value	Totals
The Tech	\$364.54	\$4630.42	\$1063.82	\$6058.78
The T.E.N.	329.25		738.32	1067.57
Voo Doo		937.09	262.28	1199.37
Technique	143.81	3198.09	306.05	3647.95
Totals	\$837.60	\$8765.60	\$2370.47	\$11,973.67

Itemized individual statements of these trust funds, showing list of securities, etc., will be found in Appendix A. At the present time the books of the various publications are being audited, and in all probability when these audits are completed some if not all of the publications will make additions to their trust funds.

Voo Doo: The Institute comic has completed a year in which financial success has been somewhat offset by the extreme difficulty which the board encountered in getting good literary material. The circulation has grown to 4500, as large if not larger than any other college comic, the art work is above any other student publication of this type, and in the face of a dearth of literary material the board has done exceedingly well. The Prom issue, April number, was the high point of the year, and was characteristic of the *Voo Doo* which in general appearance, art work and cleanliness of reading matter is above any other college comic in the country. It might be mentioned that the art work of the *Voo Doo* comes mainly from the undergraduates at large. With the large amount of artistic ability in the architects of Course IV it is extremely unfortunate that more of this talent cannot be turned to the *Voo Doo*; but the utmost efforts of the *Voo Doo* board have failed to awaken any sustained interest among the inhabitants of Rogers.

A full report upon the paper by James Brackett, '23, Business Manager, will be found in Appendix D.

The net profit for the year is approximately \$800.00. This does not include \$150.00 placed in The *Voo Doo* Fund during the winter.

The Tech Engineering News: During this year the *T. E. N.* has carried on its work with thoroughness and efficiency. The circulation is about equally divided between undergraduates and alumni, and it is very pleasing to see the interest taken by graduates of the Institute in this undergraduate publication since this is the best proof that the articles run by *T. E. N.* are of high quality. In fact, the Executive Committee of the Corporation has paid for five hundred copies of the *T. E. N.* which are to be sent to secondary schools as Institute publicity, thereby setting the stamp of their approval upon this publication. A full report upon the work for this year by Forrest Harmon, '23, retiring General Manager, will be found in Appendix E.

The net profits for the year will be approximately \$1000.00.

Pi Delta Epsilon Society: The Council feels that a word might be said about the M. I. T. Chapter of the Pi Delta Epsilon, a national collegiate journalistic fraternity. The object of this society is to produce a closer interest and cooperation, first, between the various publications within the individual college, and second, between publications of all colleges. The Institute chapter takes in most of the boards of the various

publications and has been of great benefit in bringing these men together to discuss matters relating to any and all the publications at Tech. To show that this society acts as well as discusses, it may be mentioned that the admirable change in the election of *Technique* boards previously referred to, was talked over and decided upon at a Pi Delta Epsilon meeting, and was successfully carried through by individual members of the society.

Although naturally the Council has no jurisdiction over this society, yet the individual members of the Council are members of Pi Delta Epsilon and therefore keep in close touch with its activities. At present, the Council is trustee for a fund created by the society, The Pi Delta Epsilon Building Fund, this being the start of a fund to be devoted later to a publications building.

The Walker Scheme: During this year the idea of a publications building has been somewhat displaced by the scheme for remodelling Walker Memorial to provide space for the undergraduate activities. The Alumni Council is naturally well informed in regard to this matter, but the Advisory Council includes mention of it here, since the chief movers of this scheme being among the leaders of the publications, it shows the live and

active interest of the undergraduates in the future of their publications and Institute activities in general.

Conclusions—Praise Where Praise is Due. The Council cannot do less than mention with complete commendation the work of the undergraduates in charge of the publications during the past school year. The publications have been soundly financed and sensibly run by active and interested students, who, at the expense of time and care, have carried their papers through to the close of a successful year.

Winward Prescott,
Secretary.



Photo by Notman

TWO UNDERGRADUATE IMPRESARIOS
E. P. Dunlaevy, left '24 heads Tech Show for next year. G. E. Parker is next year's General Manager of the Combined Musical Clubs.



Photo by Marshall Studio

REPORT OF THE ADVISORY COUNCIL ON MUSICAL CLUBS

The season of 1922-1923 has been in many respects a repetition of that of the previous year. The clubs have played a total of 29 concerts, to a total audience of about 15,000 people, and have handled a total of about \$12,500. Reports from various quarters warrant us in believing that the concerts rank well in comparison with other college musical offerings. The appearance and conduct of our men on the trips has received favorable comment and it is the writer's belief that the work of the Musical Clubs is a credit to the Institute and that it warrants the hearty support of the Alumni, both individually and collectively. During the past season the clubs received added publicity, owing to the broadcasting of four concerts, these being Philadelphia, Schenectady, Buffalo and Boston.

Organization and Policy.

In the division of management the only important change has been the creation of the office of Business Manager, designed to be filled by a senior. This officer is to have direct supervision over the business department and thus to relieve the General Manager of some of the details of administration.

Acting upon the recommendations of the auditor a number of changes in accounting and office methods have been instituted and are now in successful operation. A budget for next year has already been made up and the experiences of the past year will undoubtedly result in a more businesslike program for the next and all succeeding years.

The greatest progress in this direction has been the realization and acceptance by the clubs of the principle that all trips should be self-supporting and that none should be undertaken unless all expenses are covered by satisfactory guarantees. Your

Committee has had a clear conception of the necessity of such an obvious business policy, but has had to face the long-established custom of the clubs of making an extended trip each year. It was thought better to allow the clubs to learn the better way by experience rather than to postpone the accomplishment of such natural development by the arbitrary veto of an unguaranteed trip. That progress in this direction appears to have been made is evidenced by the recommendation of the outgoing General Manager to the effect that no long trip should be undertaken next year unless guaranteed. This recommendation appears to be entirely acceptable to the incoming management.

Edward E. Bugbee, '00, *Chairman*

REPORT OF THE ADVISORY COUNCIL ON TECH SHOW

The Advisory Board on the Tech Show transmits herewith the Report of the Undergraduate Management of the Tech Show 1923, the details of which are self-explanatory.

The Tech Show has now grown to be one of the major activities at the Institute and next to athletics affords opportunities for recreation to the largest number of men and handles more funds than any other student organization. Although originally conceived as a means of raising money for athletics, the development of our present school life, together with the change in student conditions of recent years, has so broadened its influence that today its major purpose is to further opportunities for friendships, contact with the "other fellow," administrative and business experience, together with a little leaven in the loaf in the stern atmosphere of Technology life.

During the past twenty years, the change in character of the production is familiar to most of you and today it may fairly be claimed that we produce the most finished and elaborate college show, considered from all points, as is attempted among that class of production.

The lighter sides of the activity are obvious, and it is to be remembered that not merely are the benefits referred to above in the line of general experience to the students worth while, but the business training which a large number of men obtain in administering the complex responsibilities of this organization are apparent. The Board has noted with pleasure that its policies of insisting upon rigid business principles have borne fruit, and the general methods followed and reports submitted by the various department managers are worthy of any business organization of mature men. The training in contact with the world which is afforded to a large number of the staff is an invaluable one, and it is interesting to note the effect upon the men during their undergraduate years and to follow these same men out into active business life and observe that, as a rule, the success which comes to the young fellow out of school is often in a great degree traceable to some of the experiences afforded by reasonable participation in activities of the nature of the Show.

The scope, however, of these activities must always be measured with due regard to the Institute program and the Advisory Board has definitely taken stand that only those men may engage in the Show who are able to maintain a satisfactory standard in their studies, similar to that which would be required of him who would keep his place on an athletic team. This has had a most wholesome effect and it is extremely gratifying to observe the sincere acceptance of this principle by the undergraduates themselves. Again, serious attempts are being made to associate the work of the Show with these departments of the Institute from which mutual benefit may be derived, such, for instance, as the Architectural Department, in design, color, and lighting effects, together with the English Department in connection with the writing of the book, songs, etc. We are deeply indebted to the staffs of these departments for the cordial coöperation extended, and the actual credits given for such work of the students as are applicable in their professional courses.

This year the schedule of the Show was considerable elaborated and the production itself, if seen by any of you, needs no comment.

The usual three performances were given at the Boston Opera House, together with two performances at Smith College, and one at Simmons College, which have formerly been on our schedule. It was decided this year to attempt what had long been the desire of many interested in the Show, namely — a trip to New York. Arrangements were made to play also in Hartford, Connecticut, en route, and although it was realized that such a trip would probably cost a large amount of money, and together with the type of production attempted this year, would undoubtedly prevent us from realizing the substantial profit of the past, was decided that from a general policy standpoint of bringing the Institute of today before the Alumni, and

especially to assist in the present alumni situation in New York City, to attempt the innovation.

Accordingly, the New York and Hartford trip was undertaken, resulting in most successful productions and extremely favorable comments by those who observed the results. The effect upon the New York alumni association was most desirable and it is hoped that this trip can now be made a regular part of our program.

In the view of the large expense entailed due to the innovations referred to, the Show did not this year much more than clear its expenses. It is believed, however, that this extraordinary condition was entirely justified, as the experience obtained will enable future operations to be carried out most desirably, and can be viewed as laying foundations for such reasonable loads as a proper sense of proportion may indicate desirable for one of our important student activities.

Alexander Macomber, '07, *Chairman*

THE FOLLIES OF 1923

Senior Week, as usual, lasted five days. This may seem like a typical bricklayer's week but the Seniors, reflecting that the Juniors have only a plumber's week, or three days, were not ill-pleased with their allotment and managed to pack into it a good deal of event.

The "order of exercises" did not follow precedent, since this year's Senior Class had its dinner first and having eaten, devoted the rest of the week to more peripatetic gayeties. The Senior Dinner was held on June 6 at 6.30 in the Main Hall of Walker Memorial. There was much noise and sufficient food. R. P. Shaw was elected permanent President of the class and R. H. Smith, permanent Vice-President. Elliott A. Adams, was elected Treasurer and R. E. Hendrie, Secretary.

After all this had happened the Seniors quieted down to listen to the addresses of the evening which were made by Calvin W. Rice, '90, Secretary of the American Society of Civil Engineers and by President Stratton. The evening ended with the conventional Stein Song.

Event Number Two was the Class Picnic, which came next morning, and started at nine o'clock, when a special fleet of street-cars laden inside and out with Seniors started across Harvard Bridge. By this, and other means of transportation (which included a Snake Dance to Rowes Wharf) the Seniors arrived at Pemberton. There they swam, had an outdoor dinner, (was this because the Pemberton Inn did not again wish to risk its dining room?) met for track, baseball, tennis and other sports. Then the Seniors, flushed with sunburn and pleasure, came home.

The third event was a Tea Dance on June 8 at 3.00 p.m. It was just a Tea Dance.

Class Day came next — on June 9 at 2.30. It was held in the Cambridge Armory before an audience of almost 3000. It was notable in exposing for the first time to public view the Seniors in the caps and gowns which changed Technology precedent. President Harry J. Carlson, '92, retiring President of the Alumni Association and Professor Robert E. Rogers were the speakers. Frank Gage brought his piano along and played it. This was memorable, for it marked one of the last performances which this virtuoso was to give during the course of his illustrious musical career as an electrical engineer. The hall was pleasantly decorated and the events were staged with celerity and dispatch.

Officially the close of this ceremony ended Senior Week.

The baccalaureate sermon given in the new Old South Church by Dr. George A. Gordon at 3.30 began a more solemn set of ceremonies which concluded (and concluded the undergraduate career of 1923) with graduation on the 12th of June.

ATHLETICS

THE ATHLETIC YEAR IN RETROSPECT

The annual reports of the Advisory Council on Athletics and Advisory Council on the Boathouse, which were submitted at the annual meeting of the Alumni Council, summarize the athletic progress of the year just passed. The annual award dinner of the M. I. T. A. A., which took place in Walker Memorial on Wednesday, May 9, was particularly significant this year because of the presentation of the George Henry Richards' Cup by Professor Robert H. Richards, '68.

The Advisory Council reports which were read by Dr. Allan W. Rowe, '01, and John L. Batchelder, '90, are reprinted below.

REPORT OF THE ADVISORY COUNCIL ON ATHLETICS

During the past year the athletic activities of the student body have shown the same definite progress that has characterized the last few years. With the settled policy of the Advisory Council to promote and encourage sports in direct proportion to the number of men deriving potential benefit from them, several of the student activities have come definitely forward. The soccer football team showed a very satisfactory level of performance, and engaged the activities of some forty men. This is a sport which the Advisory Council is particularly anxious to further, as it forms a helpful outlet for men of Latin-American, Continental and Oriental birth and training, to whom the usual college sports are unfamiliar and who are familiar with this particular game. A need for increased space for play manifested itself at the beginning of the season, and through the courtesy of the City of Boston, the North Brighton Playground was rendered available for the team's use.

The Cross-Country Team had a particularly successful season, and its competitions were characterized by the fine spirit of true sportsmanship, which is the goal of all true athletic endeavor and for which the Technology teams bear an enviable reputation. A large variety of the usual sports were carried on during the winter. It may be of interest to the Alumni Council to know that the undergraduate body at the present time is carrying and conducting varsity teams in association football, basketball, boxing, cross-country, crew, gymnasium, tennis, fencing, hockey, wrestling, swimming, track, rifle shooting, freshman class teams in practically all of these sports with a full series of extramural freshman competition, two class football teams, the tug-of-war teams, four class crews, four class baseball teams, and yet other minor team organizations. Over thirty organized and accredited team organizations have been operated during the current year.

In this connection the total gross expenditure for all of these athletic

activities falls inside of \$30,000 and the deficit from gate and guarantee receipts has been met by the Undergraduate Dues apportionment. In other words, the students have conducted this large and varied athletic programme for a remarkably low cost, and without a deficit. Too great credit cannot be given to the judicious and wise functioning of the undergraduate body of control, and the individual undergraduate managers. It may be re-affirmed here, that in the writer's knowledge Technology is the only institution in the country where the conduct of the financial side of athletics is entirely in the students' hands, and the extremely efficient way in which these affairs are administered is a speaking tribute to the quality of our undergraduate body, and a thing in which every alumnus may take a just pride.

As a result of a most admirably prepared student report, the Corporation of the Institute re-apportioned the student dues, assuming \$3.00 of the \$4.00 set aside for the Walker Memorial, and giving this sum outright to the athletics. This generosity on the part of the Corporation has been of the greatest value in enabling the various athletic teams to maintain larger squads, and for a longer period of time, and so has conducted directly

to the furtherance of the basic principles of general exercise for the student body. In addition to this very generous gift, the Corporation remodeled half of the Naval Seaplane Hangar and has provided admirable housing facilities for basketball, boxing, wrestling, indoor tennis, and other of the student activities. This increased space has further permitted the release of the gymnasium floor for a number of special classes and as a result for the first time, men of unsound bodily habit are receiving corrective gymnastic exercises, which inevitably will react favorably upon the general level of student health. While the Council acknowledges its deep indebtedness to the Corporation for making these progressive and beneficial changes possible, it also wishes, on the one hand, to express its thanks to Professor E. F. Miller, '86, through whose cooperation and good will several important matters have been furthered, and, on the other hand, to Dr. George W. Morse, Head of the Department of Hygiene, who has shown uniformly the finest quality of cooperation with the purely competitive athletic interests.

The rowing at the Institute established last year on a very firm foundation by the purchase by the Corporation of the B. A. A. Boathouse has shown remarkable progress. In the first place, all of the coaching is being done by amateurs who are giving their services to this interest. The Council is indebted to Mr. Arthur Stevens, to Professor F. S. Dellenbaugh, '21, and to Lieut. M. D. Harris, G., of the United States Navy, for a loyal and most efficient service. Numerous gifts have been received, notably a launch for coaching purposes from Mr. Henry A. Morss, '93, and a fund of money, the E. W. Rollins Fund, for the Development of Rowing, from the Tech Club of New Hampshire. This last enabled the Council to purchase at a great bargain, a number of eight-oared shells from the Norton Rowing Club in Worcester. Full details will be given under the report



Photo by G. H. Davis

THE RICHARDS' CUP

Presented by Prof. Robert H. Richards, '68, in memory of his brother, George Henry Richards, as a perpetual challenge cup to be rowed for annually, by class crews. George Henry Richards was famous as an oarsman during his residence, from '59 to '62, at Trinity College in Cambridge, University, winning twelve prizes: five cups, four silver medals and three gold medals.

of the Boathouse Committee. Finally, Professor Robert H. Richards of the Class of '68 has presented an extremely handsome silver cup in memory of his brother, George Henry Richards. This cup is a perpetual challenge cup for class crews and will be rowed for annually. The Advisory Council on Athletics presents to the winning crew a medal bearing a bas-relief of the cup on its obverse face. At the present time, it is possible for us to boat nearly one hundred men at one time.

A plan of much moment, not only to the athletic interests, but also to the student activities, is now in process of formulation. As the details of it have been placed before the Alumni Council, it need only be stated here that it contemplates the dedication of the remainder of the Seaplane Hangar to gymnastic purposes, the transformation of the present Walker Gymnasium into a series of committee rooms and lounges for the use of the other student activities, and embraces the prospect of the erection of a really adequate gymnasium upon Institute property in close proximity to the Educational Building at some time in the future. This gymnasium would be so constructed as to offer an assembly hall, large enough on the one hand to provide adequately for Technology gatherings, and on the other, to assist in the development of the military activities at the Institute.

In addition to the services rendered by amateur coaches in the rowing, we are indebted to yet other gentlemen who have given their time to develop Technology teams. Mr. Herbert Holm has coached the swimming team, Lieut. G. C. Calnan, G., the fencing team, while several others have given assistance to yet other teams. The Council wishes at this time to express its indebtedness to these gentlemen.

Council Meetings have been held on the first Tuesday of every month following the practise instituted a number of years ago. The average attendance at dinner, which is confined to the Council and a few guests representing other institute activities, has been eleven; the average attendance at the subsequent general meeting something over twenty.

In conclusion, the Council wishes to say that it regards the year now completing as one of definite progress in normal, just athletic development, in health and character building and in establishing yet more firmly in the student body the principles of true sportsmanship which has characterized the performance of our several teams.

Allan Winter Rowe, '01, *Secretary*

REPORT OF THE BOATHOUSE COMMITTEE

Thanks to the generous purchase of the B. A. A. Boathouse by the Corporation of the Institute and its dedication by them to the furtherance of rowing as a student activity, an interest of far-reaching import and significance has been created. Recognizing the two-fold character of rowing activities, namely, the furtherance of competitive rowing on the one hand, and on the other, the promotion of general rowing interests at the Institute, the Alumni council created, during the winter, an Advisory Council for the Boathouse Activities. Conduct of competitive rowing remains in the hands of the undergraduate body under the supervision of the Advisory Council on Athletics. The general management of the boathouse and the promotion of general rowing at the Institute becomes the mission of the newly-created Council. To complete the few months of the then current year, President Carlson appointed the following Council to serve until the regular elections: John L. Batchelder, '90, Chairman; Horace S. Ford, Treasurer; Allan Winter Rowe, '01, Secretary.

The Advisory Council has held monthly meetings, two of which have been joint meetings with the Undergraduate Boathouse Committee. Certain of the increments in equipment have already been commented upon in the report of the Advisory Council on Athletics. In brief recapitulation, it may be said that thanks to the generosity of the Tech Club of New Hampshire, the E. W. Rollins Fund for the Development of Rowing was created and that this has been used for the purchase of seven second-hand eight-oared shells in excellent repair. Mr. Henry

A. Morss, '93, has presented the launch "Wolf" and yet more recently, Robert H. Richards, of the Class of '68, has given the George Henry Richards' Cup for inter-class competition. A full set of rowing machines was also acquired in addition to those already in the possession of the crew, and other facilities have been added during the winter. Intramural competitions have been held, both in the fall and spring, and in addition there has been a steadily growing volume of general rowing. The most crying need at the present time is for singles and doubles, which will permit oarsmen to indulge in this admirable recreation without the necessity of entering a competitive crew. The boathouse possesses a few of these necessary articles, but a number more should be purchased for immediate use. It is hoped that the funds for this may be secured from the local Technology Associations.

A pleasing incident in the use of the Boathouse and its facilities was the composition last summer of a crew of young men associated with Technology, but ineligible to represent her in competition. This Crew working together through the summer months, entered regattas at Springfield and at Worcester, in both instances winning the senior eight-oar competition and securing handsome cups thereby, which they presented to the Boathouse.

At the Spring Meeting of the Alumni Council the present Boathouse Committee was formally elected to their several positions. This report represents their first formal statement.

The Council wishes to say, in presenting this report to the Alumni Council, that it feels that Technology has made a very definite and encouraging start toward the firm establishment of one of the most healthful, clean and desirable sources of exercise and that it looks forward with large optimism to the steady growth of this interest.

Allan Winter Rowe, '01, *Secretary*.

KANALY

After sixteen years of service at Technology, Frank M. Kanaly has resigned to accept a full professorship and the coaching of the track and field athletics of the University of Maine. It was with regret that the Institute authorities accepted the resignation, as it was impossible to meet the financial offer made to him by President Little of Maine. No appointment of a successor has been announced.

TRACK

Three dual meets in which Technology won from Maine and lost to Harvard and Dartmouth, together with the New Englands and I. C. A. A. A. constituted the spring track record of the Varsity. The Maine contest at Orono, April 28, was won 81 5/6 to 44 1/6 with one record broken—the 120-yard high hurdles by E. W. Blodgett, '24, time 16 1/5s. Harvard proved the master in a meet held May 5, the Crimson's ability in five events putting the Tech squad under a handicap. The score was 81 to 54 in spite of six firsts won by Tech. Again in the Dartmouth meet, which was lost by the same score as the Harvard contest, Technology carried away the running events by a margin of 12 points, but lost by its inability to score well in the field events. The summary of points for these three meets illustrates the strong and weak points:

	M. I. T.	Opponents
Points in running events . . .	126	90
Points in field events	61 5/6	118 1/6
Total Points	187 5/6	208 1/6



Photo by Bachrach

GEORGE SWARTZ, '24
President of the M. I. T. Athletic Association for the coming year

Represented by a powerful and well balanced team which exhibited remarkable fighting quality from start to finish, Bowdoin, with 29 1/3 points, upset all predictions by winning five first places and carrying off the honors in the 37th Annual Meet of the N.E.I. A.A. at Tech Field on May 18 and 19. Technology was second with 24 points, Williams third with 23 points, Wesleyan fourth with 19 points, and Amherst fifth with 16 1/3 points. Boston College, Bates, Maine, Boston University, New Hampshire State, Holy Cross, Brown, Middlebury, Vermont, Norwich and Massachusetts Aggie finished in the order named. R. E. Hendrie, '23, a probable first in the two mile, left a sick bed to compete but was unable to finish his race. His exhibition of gameness, if successful, would have placed Tech in the lead.

In the Four-A meet held a week later at Philadelphia, H. W. Dexter, '23, placed third in the 16-lb. hammer throw and E. E. Sanborn, '23, placed fourth in the one mile run, scoring a total of five points for M. I. T. Dexter also won the Technique Cup which is awarded to the highest point winner each year. The basis of computation is one point for each point won in class or dual meets; three points for each point won in the New England's; and five points for each point won in the I.C.A.A.A. Capt. A. D. Smith, '23, was second.

GOLF

The last match of the season found the golf team defeating Amherst 5-0 at the Brookline Country Club.

The only defeats suffered out of seven matches were those pinned on by West Point and Harvard, who took their matches 3-2 and 4-2 respectively. Wins over Brown University, Boston University, Merrimack Valley Club, Bowdoin, and the last one over Amherst, indicate the mettle of the team. The only bad feature of the season is that practically the whole team will graduate this year, and the ranks will have to be filled up with new material.

RIFLE TEAM

Completing its season with victories over Harvard, Yale, Princeton, Maine and many other colleges, and finishing in 10th place in the National Rifle Association matches against the best college teams in the country, the Technology Rifle Team has finished the most successful season ever enjoyed at the Institute.

Under the leadership of Capt. Edward D. Murphy, '25, of Washington, who was at the top of the list since the start of the season, the men showed consistent improvement in both the N. R. A. and dual matches, finishing the Nationals with a total of 3835 out of a possible 4000, and turning in perfect 500's in the last three matches against Michigan Aggie, Iowa State, and the University of Iowa.

The mid-season match with the University of Pennsylvania proved to be the most closely contested of the whole season, when after 500 shots apiece, a perfect record on both sides forced another match to decide the winner, in which Penn triumphed by two points.

FRESHMEN TRACK RECORDS AS APPROVED BY ADVISORY COUNCIL ON ATHLETICS, APRIL 3, 1923.

Event	Record	Made by	Date
100 Yards	10½s.	W. L. Webster '23	April 24, 1920
220 Yards		Record not yet determined	
440 Yards	50½s.	A. D. Smith '23	May 15, 1920
880 Yards	2 m. 1½s.	F. L. Plaisted '23	May 15, 1920
1 Mile Run	4 m. 38½s.	F. L. Plaisted '23	May 15, 1920
120 Yards			
High Hurdles	17s.	H. L. Houghton '24	May 14, 1921
220 Yards			
Low Hurdles	26½s.	A. C. Read '24	May 14, 1921
High Jump	5' 8½"	W. B. Greenough '23	April 17, 1920
Broad Jump	20' 1"	E. J. Heap '23	April 24, 1920
Pole Vault	10' 6"	P. J. Stearns '23	April 24, 1920
12-lb. Shot	41' 7¾"	T. H. Nimmick '24	May 14, 1921
12-lb. Ham.	136' 0"	H. W. Dexter '23	May 15, 1920
Discus	105' 2"	G. C. Caine '25	May 13, 1922
Javelin	136' 0"	E. M. Holmes '25	May 13, 1922

The match with Georgetown found the Engineers and their opponents both shooting wide of the mark. Georgetown finally taking the count with 990 against 982 for Tech.

Georgetown later showed its skill by winning the National title. Five perfect scores were turned in for the team, including the Yale and Penn matches, as well as 64 perfect individual targets with a 500 possible. A condensed view of the team's activity for the year is shown as follows:

	M. I. T.	Opponents
Maine	497	486
N. H. State	496	474
Princeton	497	491
Syracuse	491	498
Dartmouth	497	491
Drexel	495	498
Boston University	496	497
Harvard	497	483
University Penn.	995	997
Yale	500	498
Georgetown	982	990
Oregon A. C.	499	479
McGill University	497	470
John Hopkins	497	490
Carnegie Tech	498	492
Lehigh	497	498
Michigan Aggie	500	489
Iowa State	500	492
University of Iowa	500	493

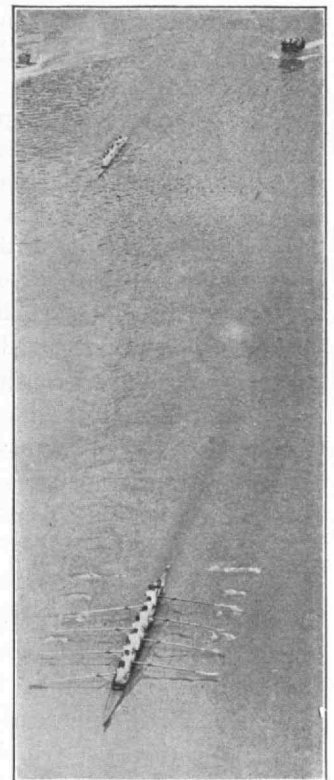
Won: 11

Lost: 7

CREW

From the standpoint of victories the spring crew season was a disappointment, but so far as interest shown by the number of men participating and the future development of crews is concerned, the undergraduates feel cause for satisfaction. The Varsity lost its three races to the Navy at Annapolis, Syracuse at Syracuse, and Columbia at New York. Some consolation is found in that the Navy administered just as decisive a defeat to Harvard, while Columbia won a one-sided race against Princeton.

The Richards' Cup Race for class crews was held for the first time on May 12 and was won by the freshman class of 1926. The ports of the two Advisory Councils printed earlier in this section testify to the success of the non-competitive side of rowing.



P. & A. Photo

THE COLUMBIA-TECH RACE
The Varsity meets decisive
defeat in New York



EDITORIAL COMMENT



The Thing Happens

Hardly anyone, we imagine, was not largely satisfied with the Inauguration, and, incidentally, with the Graduation Exercises. Both ceremonies were adequately picturesque, dignified, and, above all, suitable to the estate of the Institute. They gave the proper impression: a great university of science and technology conducting two eminently important public functions in the traditional manner of an institution of learning. The Inauguration especially, as managed at Symphony Hall, was splendid in color and significant in program. The speeches of welcome from Corporation, Alumni and Faculty, from the National government and sister scientific institutions, and — most touching and memorable — from one of the first teachers, Charles William Eliot, were a fine epitome of all that Technology meant. The President was undoubtedly impressed. And we, in turn, were more impressed with the encyclopædic range of his scholarship in modern science, his grasp on the scientific achievement of the immediate past, as revealed by his inaugural address.

The Graduation Exercises, too, were worthy, and we have no doubt that most members of the Class of 1923 were very heartily proud and satisfied that their parents and friends should see the Institute, and them graduating, under the happiest and most impressive conditions any class has known. The presentation of diplomas to the individual instead of to the mass proved itself, under the brilliant management of Professor Prescott, perfectly feasible, far less lengthy and wearisome than anyone had anticipated. The success of the loud-speaking apparatus, equally with the inconvenience their absence occasioned at Symphony Hall, showed conclusively that such an apparatus must henceforth be a part of the Technology equipment for use on every such occasion. All in all, we believe that nearly everybody who attended those two events, whether faculty, alumni or students, is pretty thoroughly "sold," to use the language of Course XV, on the advisability of formal academic exercises for the Technology of the future.

But perhaps most memorable in those two days was the picture we retain of Dr. Stratton . . . who is now, henceforth, apparently, to be always cheered as Sam. Whether in Symphony Hall or in Eastman Court, or better still in the more intimate atmosphere of the inauguration dinner that Monday evening at the Algonquin, what was most noticeable was his simplicity,

his modesty, his friendly eagerness to bring others forward, his wistful memory of his good work in Washington, his self-effacing feeling that the new job is more important than the new man, and the quiet, unassuming bearing of a plain man accustomed to doing great things plainly. No other impression makes us feel more certainly that these two past days are the auspicious beginning of a new era of larger accomplishment for Technology.



Dormitories

We had waited for more dormitories just long enough to be thoroughly relieved and grateful when the generosity of the Class of 1893 provided them. A lesser time, perhaps, and we might not have realized how much we stood in the debt of the donor; a greater time and we should have lost more valuable years without an adjunct which is vitally necessary to the healthy growth of Technology.

A dormitory is an educational vitamin. You don't have to have it to live, but if you continue to live in abstinence from it, the scurvy attacks you. Technology is today suffering because with a registration of 3000, goes a dormitory system housing not many more than 150 men. Five percent.

Obviously by adding a unit that will house, in round numbers, 80 more, one does not solve the problem. For the 80 rooms we give hearty thanks, to be sure, but we also give thanks to the Class of 1893 for starting a snowball which (for is this not the right kind of snow?) must grow much larger before it ends its course.

Building operations are contagious. Marble chips from the mason's mallet fall often on a fertile soil. When we have broken ground for one new unit, it will, we fondly hope, make easier the beginning of the second, the third and the n th.

For surely at the present time, we need n dormitories. If ever there was an institution which needed to create a community of its own, Technology is that institution. It is, to all purposes, set upon a desert. Northward, lumberyards and chocolate factories. Eastward, machine shops and garages done in 5th Century Gothic. Southward, an excellent but unsocial river. Westward, car tracks, stores, and open places. Not a hostile soil for a technical school, but not a soil in

which anything — a tree, a plant, a mind, a spirit, can grow.

Yet grow all these things must. How aught but a lime tree can be made to grow in so calcareous a soil as forms land made from clamshells we do not know, but we are comforted to learn that the problem is said by arborologists, who should know, to be far from impossible. But as for making minds and spirits thrive, any amateur sociologist knows that it is only necessary to make a community of interest a geographic community as well.

Many editorials before this one have pointed to the commuting student as the root of many evils of Technology. These are right, and we shall add to the bulk of denunciation only by adding that the commuting professor is almost equally responsible. Here, of course, is another problem — partially, but only partially, to be solved by an instructors' dormitory for which, a space ago, the Review plead.

So many things we need. A few years ago Willard Straight gave a fortune "to make Cornell a more human place." That phrase caught on, as it deserved to do, and forced Cornell to the conclusion that, although it had thought it was human it was not so much so as it might wish. And yet humanness for Cornell University, clustered on a high plateau East of Ithaca, is not a tithe so difficult to attain as for us, set down between a railroad and river. We could spend a fortune, and perhaps, some day, we shall.



Are You We have dwelt an editorial year in a great euphoric calm. No one has fought with us, not a soul. For all the protest from the personnel of our subscription list, rising out of what, this eight-month, we have done or said, we might have achieved journalistic perfection. This is a pleasant idea to toy with, but somehow we doubt its truth. And yet, although letters of commendation have come to us now and then, a letter of specific condemnation has not yet found its way to the editorial desk. It is true, we have had some bitter little notes, but these were from gentlemen who had failed, for whatever reason, to receive the magazine with wished-for regularity, and the very asperity of the writers could be taken as some indication of regard.

These days are, of course, not like elder ones.

It is a close season on editors. There is no longer a circumstance under which an irritated subscriber can kick the door down, demand "Are you the editor?" and, receiving an affirmative response, let the poor wretch have the full of the two barrels of a sawed-off shotgun. No: that is all past, and we make no pretense

of sorrow. But — can we no longer have discussion? More than once this year we have written what we believed, and what we hoped was heresy, saying as we wiped our pen: "There, that'll fetch 'em!" But it did not fetch 'em.

Why did it not? Did we say it dully? Did we instantly convert you? Did you never see this page before?

Or was the effort of written disagreement simply too difficult for you to sustain?

We cannot help suspecting the latter alternative. Technology men are notoriously short-winded in debate. To our mind, this is a pity. We should abhor to see substituted for our present serenity any spirit soever of contentiousness, the like of which divides so many collegiate houses against themselves, but we should like to see our readers become articulate, now and then, over something, we care not what, which concerns Technology or its alumni. Coma never makes a person troublesome, but doctors and editors together dislike to come upon it.



The bags are packed. The blankets have been laid in the attic trunks. The silverware has been put away. The water has been turned off. The cat has been left with the neighbors. We have notified the iceman, the milkman and the newsboy not to leave anything more for us until further notice. In short, we are leaving the office on our vacation. There are no more Technology Reviews until November.

This seems to be the moment, then, for a leave-taking. Well, we've spent a pleasant year at our work. It is our hope that you have spent a reasonably pleasant one in the contemplation of it.

When the new editors came to the Review, little less than a year ago, they came proposing to do several violent things to the magazine which, without essential change, had been issued by the Class Secretaries or the Alumni Association for the previous twenty-three years. They did these things. They sought to do them in a manner which would achieve their purpose and be a still not too vertiginous wrench for those who cherished the old Review. They believed it their duty to establish and to dis-establish.

The last product of our first year's experience is before you now. When we come home again we shall draw upon the stores of this experience for the production of a Review that, next year, shall be (as all things should be) better than before.

And now here's the train. Good-bye.

NEWS FROM THE ALUMNI ASSOCIATIONS

WASHINGTON SOCIETY OF THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Of course, the event which has stirred our hearts and then filled them with proper pride is the appointment of Dr. Burgess (George Kimball Burgess, '96, VIII), to the Directorship of the National Bureau of Standards. Tech thus follows her unwritten motto — *Noblesse oblige*.

The Editor of the Review might as well have continually set up the words, "Our Friday lunches are continuously successful."

On April 6, Senator Sterling of South Dakota told us of the duties of citizenship, the duty of the engineer to engage in politics, that is, government. May he still find time to keep up with the constantly changing problems of bridge and road building. As Squire Clinton said, "If woman gets the vote, who will cook the dinner on Election Day?"

On April 13, we dispensed with a speaker and finished our desserts instead.

On April 20, S. Farnsworth, the Chief Engineer of the Post Office Department, told us of the comparatively recent innovation in the department whereby the distribution of mail has become the study of an engineer having heretofore been done by manpower in the most old-fashioned department of the government.

On April 27, as the hot weather was here, the society let down in the intellectual quality of its talks, and the Secretary was allowed to tell about a jaunt in the Pyrenees. When he asked what he might be allowed to talk about, he was told, "About a minute." He talked twenty.

On May 31, the Executive Committee met in prandial session at the Cosmos Club to consider the matter of filling the office made vacant by the departure of our well-liked and most efficient President, Tobey. Tobey has certainly done wonders in organizing the willing spirit of Tech men here. We filled his place with McDaniel who has our esteem and our best wishes. H. C. Morris becomes Vice-President and W. M. Corse our new Secretary.

On June 1, Colonel Taylor gave us an interesting description of the problems of army transportation.

Washington summer weather will be too much for our speakers, whom we shall let have a rest during the hot weather, to gather ammunition for the autumn.

Carroll Bennink, '99, *Secretary*,
University Club, Washington, D. C.

THE M. I. T. CLUB OF AKRON, OHIO

After about a year's inactivity, the Akron Technology Club has been revived. During the past winter we had only one meeting which was not what might be termed successful. Another meeting was planned for April 19. Notices were sent out about two days in advance and everyone was urgently requested to attend. Whether it was the manner of the appeal, the time it was sent out, or what it was, I am at a loss to say, but evidently the old Tech spirit of the Akron Club still prevails, and a large gathering resulted, thirty-one being present.

The reunion, you might say, started off with a banquet at the University Club. The new men all got acquainted and the others renewed their acquaintances. Tech songs were sung with Doc Kelly at the piano, he apparently being the only member skilled in that art.

One incident which occurred during the banquet may be worth relating, but I would not recommend its trial on any other than George Sprows. It happened this way: As at all good banquets, ice cream topped the meal. Just before it was served, George was called to the phone. The old adage, "When the cat's away, the mice will play," seems to apply. The boys took advantage of George's good nature and added a few relishes to his cream. On top of the crushed strawberries, chilli sauce and pepper were sprinkled, not enough of either, however, to alter the general appearance. On his return, he started to eat with the rest. A very sardonic smile crept over his countenance as he gazed from one end of the table to the other, realizing the trick that had been played on him. Notwithstanding, George consumed the whole of it, apparently relishing it, without a remark. Later in the evening a few jokes about the ice cream

special gave him an inkling of who the guilty party was. We all hope that next time no one is called away, for George's inventive brain may create some new and more displeasing concoctions.

A short business meeting followed the banquet. It seemed to be the general consensus of opinion that the Akron Tech Club should again be put on the map; that the broken link should be again welded; and that the Akron men might do their share in assisting the Institute wherever assistance is needed. New officers were elected for the ensuing year. W. H. Fleming, '16, Goodyear, was elected President, and upon myself devolved the duties of Secretary-Treasurer.

The evening terminated with a bowling tournament. Flip Fleming's team, after winning, felt confident that they could take on any team in the country. They might not win, however.

A brief account of the activities of some of the men might be of interest to some.

John Ingle has been out on the rubber plantations in the Far East since 1917 for Goodyear, and returned a few months ago for a short stay. He sailed again April 23 on the Aquitania for another two or three years. His stay in Akron was somewhat shorter than he expected, but inasmuch as Larry Odell, '11, was sailing at that time on business in London, he planned to make the trip with him.

W. H. Fleming, '16, has had quite a boost at Goodyear. He has been placed in charge of all materials in the plant, and has supervision of all purchases necessary to keep the plant going. He is responsible to Mr. Litchfield, '96, the Vice-President and Factory Manager.

Dr. W. J. Kelly, '09, familiarly known as Doc, has been in Europe for some time, particularly in Germany, returning two or three months ago. Since then a number of people he met while abroad have been out here to look him up. Kelly studied in Germany after finishing at the Institute, so he had quite a large number of acquaintances there.

We hope to get the Club organized this year and be able to furnish the Review with accounts of a real active organization.

L. H. Burnham, '20, *Secretary*,
Firestone Tire & Rubber Co., Akron, Ohio.

TECHNOLOGY CLUB OF CHICAGO

Since the last letter, the annual election has been held and the following men selected to guide the destinies of the Club for the year beginning May 1, 1923: President, Henry W. Kern, '90; Vice-President, Howard C. Blake, '06; Secretary, George T. Woolley, Jr., '15; Treasurer, J. Sterling Kelly, '22.

Through the kindness of the Illinois Bell Telephone Company, the Club was invited on May 5 to inspect the new machine switching exchange, which has since been put in service. About thirty members availed themselves of the opportunity to see the inner workings of the automatic system, and all who attended reported a very interesting trip.

A number of gatherings have been scheduled for the summer months, the first being a dinner dance to be held at the Chicago Yacht Club, on Friday, June 29. Arrangements are also being made for the annual outing on the Northwestern University campus, which will take place about the last of July. There has also been some discussion regarding a boat trip across the Lake, but as yet no definite action has been taken.

The Club has decided to amend its constitution and have a separate Treasurer and thereby lessen the work of the Secretary. This last year we increased our collection of dues by twenty-five per cent over last year, bringing the total up to 184. With three dollars dues, a reasonable amount, we ought to bring this up to a much larger number and a treasurer whose entire job is to get the money ought to be an improvement.

The weekly luncheons will be held as usual during the summer months at 12.30 on Tuesdays, at the Chicago Engineers' Club, 314 Federal Street. Any Tech men who happen to be in town are cordially invited to drop in on us.

George T. Woolley, Jr., '15, *Secretary*,
832 Seward Street, Evanston, Ill.

TECHNOLOGY ALUMNI ASSOCIATION OF NORTHERN CALIFORNIA

During the past winter there has been a monthly meeting of Tech men at luncheons each fourth Tuesday at the Engineers' Club in San Francisco.

These round table gatherings have been pretty regularly attended by an average of about eighteen men, somewhat equally divided between graduates of the last ten years and of classes earlier than that.

Around San Francisco Bay there are Tech men with such diversified interests that at any meeting may be found some who are taking part in scientific progress along lines not generally known. So there is far more interest in these luncheons than in ordinary business meetings of societies. And then, too, we have had each month an informal talk by some member upon a subject of general or technical interest.

At the February meeting Bob Hurst, '06, district sales manager for the zinc trust, gave a talk on "The Application of Zinc to Modern Industry."

Mac Perkins, '22, at the March luncheon, kept us interested for an hour in "Nowadays at Tech."

The talk at the April meeting was quite in the nature of a formal discourse by Norman Lombard, '05, upon "Stabilizing the Dollar," an able plea for the Irving Fisher plan of regulating the weight of gold behind the paper dollar so as to keep its buying power reasonably constant.

Several graduates of recent classes have located lately in San Francisco. Richard McKay, '21, on his way home to Boston from India, stopped over for a few days in San Francisco and decided to stay. He is working for the Pacific Tank and Pipe Company, makers of redwood products.—Mac D. Perkins, '22, is with C. H. Snyder, structural engineer.—Raymond C. Fisher, '21, is in the offices of the Pacific Telephone & Telegraph Co.—Walter E. Church, '21, is designing in the office of Geo. W. Kelham, architect.—Dwight Baldwin, '21, has a place with the San Francisco Bridge Co.—Alan Osborne, '21, is with the Oliver Continuous Filter Co., and Archie L. Mock, '21, our efficient assistant secretary, is associated with Walter S. Leland, '96, in the Walter S. Leland Co.

Raymond J. Barber, '06, *Secretary*,
350 Post Street, San Francisco, Cal.

TECHNOLOGY CLUB OF THE MERRIMACK VALLEY

A Lowell Section of the Technology Club of the Merrimack Valley has been formed and has held two dinners this Spring, the first being held at the Yorick Club on April 10 with over thirty men present. Messrs. Hale and Collins of Lawrence were the special speakers of the evening and wished the new section success. This Lowell Section is a part of the Merrimack Valley Technology Club and not an entirely new organization. John Collins, Jr., of Lawrence, tendered his resignation as Secretary of the Merrimack Valley Club, which position he has held for a great many years. Austin D. Keables, '09, was appointed to take his place until the next regular meeting. A. W. Thompson presided.

The second dinner was held at The Marlborough in Lowell, with twenty-four present. Charles H. Eames, '97, Principal of the Lowell Textile School, presided. After the dinner, an evening of general singing was enjoyed.

Austin D. Keables, '09, *Secretary pro tem*,
14 Hoyt Avenue, Lowell, Mass.

TECHNOLOGY ASSOCIATION OF MONTANA

It is a long time since you have had any news from the Technology Club of Montana, and although the writer is not an officer, he thinks the following should be published, as it is a resumé of what has appeared in the local papers in the last few days.

It is proposed to form a consolidated County and City Government in Butte, and a great many of the taxpayers are in favor of the manager-commission plan. In order to outline the advantages of such a proposition to the people of Butte, they sent for the foremost expert in this line; namely, Henry M. Waite of the Class of 1890. Colonel Waite made a special trip from New York as the guest of the Butte Chamber of Commerce and former Senator W. A. Clark, to address a large gathering in Butte on May 9. At this gathering, Mr. Waite made a decided hit with the whole community, and it is believed that as a result of his visit and his clear outlining of the manager-commission form of government, that the latter form will finally be the government form of Butte and Silverbow County. While

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in the city, Mr. Waite was shown all the sights, and was entertained by a committee, among whom were C. W. Goodale, Class of 1875, W. L. Creden, Class of 1890, and the writer.

Carl J. Trauerman, '07, *Acting Secretary*,
Butte, Montana.

TECHNOLOGY CLUB OF PARIS

The Secretary quite regularly receives notifications that news relative to the activities of Tech men in his jurisdiction is due. But, what is there to write about, having seen just five Tech men in Paris during the last nine months?

O. C. Lorenz, '18, IV, who has been in Spain for the last three years, representing the U. S. Rubber Products people, has gone home. He had already left when I was in Madrid last month, so I cannot tell you whether he has been "réformé" for front line European activities or is only "en permission."

Thomas Duffield, '14, XI, appeared a week ago en route to the League of Nations, now commorant in Geneva. Getting a degree from M. I. T. seems to agree with him and if I continue on Parisian hors d'oeuvre diet, without doubt it would be well for me to get mine sometime. I'm afraid the faculty would lose even more flesh than I, in that case.

Al Buck, '13, VII, is still very much on deck here in Paris with the Rockefeller Commission. He seems to be hankering after another trip into the wilds of the Near East, scratching flee bites on the backs of the inhabitants. It would seem, however, that he and Professor S. Gunn, '04, VII, will return to the States before the end of this month. Al told me this, but there is the doubt that Professor Gunn can be spared over here. His work has been tremendous and he will be greatly missed, should he return.

Would you believe it, little J. B. Farwell, '13, II, is now the General Manager of the "Compagnie Francaise des Pompes Worthington?" He has been running their factory at Le Bourget very successfully along Tech lines for the last two or three years; in fact, so successfully that they seem to want him to take care of the commercial as well as manufacturing end. He does work hard and deserves it.

McCeney Werlich, '15, *Secretary*,
3 Rue Taitbout, Paris, France.

TECHNOLOGY CLUB OF NORTHERN OHIO

On the evening of May 23, the Technology Club of Northern Ohio and the Technology Club of Akron combined to greet Dr. Stratton at a dinner given in his honor at the Union Club in Cleveland. There were seventy-five in attendance and much enthusiasm was shown.

George E. Merryweather, II, '96, President of the Northern Ohio Club, acted as toastmaster and introduced Dr. Stratton, who spoke most effectively as to his first impressions of the Institute and as to his earnest desire to cooperate with the alumni body (which he termed the finest organization of all the college alumni associations of the country) in maintaining Institute standards of personnel and scholarship. Dr. Stratton made known his desire to hear from any alumnus present as to suggestions for the improvement of conditions and the curriculum of the Institute. W. H. Fleming, II, '16, of the Akron contingent, F. B. Richards, III, '84, Henry Howard, V, '89, Prof. H. B. Dates, VI, '94, Prof. R. H. Danforth, II, '98, and F. R. Walker, IV, '00, contributed ideas as to different phases of the Institute in response to Dr. Stratton's request.

There have been many expressions of renewed faith and loyalty to Technology since Dr. Stratton's visit to Cleveland and there is evidence abundant of a keen interest and a willingness to work for a greater Institute. All are unanimous in congratulating the Institute and every man feels that Dr. Stratton is the one man who can accomplish what is needed, and, better yet, who knows what the Institute needs.

Prof. R. H. Danforth, II, '98, recently served as chairman of a Citizens' Fact Finding Committee to determine actual costs of producing and furnishing the City of Cleveland with natural gas and to aid in settling a controversy long standing between the Council of the City of Cleveland and the East Ohio Gas Company as to rates. These two groups had been conducting negotiations over a period of several years to settle upon a fair schedule of prices and recently a near deadlock resulted which, through action of the courts, almost caused Cleveland to lose its natural gas supply entirely. A group of civic organizations formed the Fact Finding Committee of which Professor Danforth was chairman. The committee did some work and, although a price schedule satisfactory to both parties was arrived at prior to the completion of the committee's work, it is thought that this method of attacking civic problems had sufficient weight in forcing an agreement, to cause the several civic organizations from which the committee was formed to seriously consider making it a permanent group to investigate and report on any problem of a similar nature which may arise from time to time.

Philip N. Cristal, '17, *Secretary*,
1200 Marshall Bldg., Cleveland, Ohio.

TECHNOLOGY CLUB OF HARTFORD

The Technology Club of Hartford held its Annual Meeting on June 2, 1923 at the Bond Hotel, about twenty-five members being present. The speaker of the evening was W. C. White of the Research Laboratories, General Electric Company, Schenectady, N. Y., and the subject was "The Electron Tube," one of the most wonderful inventions of modern times. This talk was illustrated by lantern slides and was very much enjoyed by the members. The Secretary's report was read and showed that there were many enjoyable occasions during the year. The Club had about fifteen luncheons during the winter at which many notable speakers gave interesting talks.

Officers elected for the ensuing year are Frederick C. Moore, President; E. C. Alden, Vice-President; Geo. W. Baker, Secretary and Treasurer. These with H. H. Marshall, and H. W. Griswold comprise the Board of Governors.

On January 16 it was voted that the Tech Show give a performance in Hartford and it was in considerable measure due to the good work of George Holman and a committee of ten that Parsons Theatre on March 19 was filled to capacity.

A bowling match was held Saturday afternoon, April 28, between the Technology Club of Hartford and New Haven County Technology Club. At six o'clock both clubs were entertained for dinner by the Southern New England Telephone Co. at their building located in Hartford and later in the evening a demonstration of the new automatic telephone and switchboards was explained by employees of the Telephone Company.

Two dinners were given during the year at the City Club followed by bowling matches and were much enjoyed by those who attended.

The Club is now planning for its outing to be held jointly with the New Haven County Club at Boxwood Inn, Lyme, Conn., on June 30, 1923.

George W. Baker, '92, *Secretary*,
Box 983, Hartford, Conn.

TECHNOLOGY CLUB OF RHODE ISLAND

Since the last broadcasting period the Club has gone in for athletics calculated to build up the system generally, and to develop a race of quick-thinking, active, far-sighted leaders of men that America needs in this time of strife and struggle for personal gain. Being 'always one step ahead of the times, the Club resurrected one of England's national games which has not as yet been recognized as a major sport at Technology. 'Twas a great battle that took place and the participants, although much in need of a wheel chair the following day, acquitted themselves like knights of old. The end of the evening found a blood-stained room of perspiring athletes and in the words of the Irish ballad "the ears and eyes and noses were like marbles on the floor . . ." Ping-pong, that venerable recreation of fighting men throughout the world, was the subject for discussion on this occasion and long before adjournment many were disgusted with the vagaries of the celluloid ball. The Club's official pusher of the pen broke the most balls and was duly presented with a pocket garage for white camels.

The Annual Meeting of the Club was held in the Turks Head Club on Thursday, June 14, and took the form of a banquet. The many members present enjoyed an exceptionally pleasant evening, for we had as our guest, Dr. Stratton, and agreeable to his request most of the evening was spent in an informal discussion of the Institute's customs, curriculum, and future. Everyone entered into the spirit of the occasion and the result was an increased interest and a valuable exchange of ideas.

The nominating committee proposed the following names for office which were duly elected: President, Chester T. Morey; Vice-President, Morrell Mackenzie; Secretary-Treasurer, Norris G. Abbott, Jr.; Delegate to the Alumni Council, William C. Dart and two members of the Executive Committee, F. O. Clapp and H. W. Congdon.

The Club made an attempt this year to run a concert and dance by the Musical Clubs, but as the drive was started rather late, it was finally deemed advisable to abandon the idea. However, it is earnestly hoped that it will be found possible to have the concert next year and plans are now under way to that end.

Many neophytes still continue to flock to our standards and the list of loyal sons of the slip stick in Rhode Island is stretching the Secretary's register. The latest adherents are C. K. Rathbone, '20, W. R. Walker, '09, W. H. Dibble, '22, Raymond Lord, '11, and E. S. Esty, '18.

Art Stewart and Jim Finnie did a good job this year in the publication of the first issues of The Technology Bulletin, a flyer of interest to Technology in general, and The Tech Club of Rhode Island in particular. Beginning with a modest start they have laid the seeds of future volumes whose editorials of world interest may some day cause the astonished public to revere the memory of the intrepid adventures responsible for its birth. Who knows? We may have an embryo Transcript in our midst.

Anyone desiring copies of the Club Bulletin may obtain them by writing to the Secretary.

Norris G. Abbott, Jr., '20, *Secretary*,
815 Grosvenor Bldg., Providence, R. I.

M. I. T. ASSOCIATION OF BALTIMORE

This newest local alumni association first saw light at a luncheon at the Engineers' Club on February 23, 1923. Fifteen men turned out and effected a temporary organization by electing Theodore W. Pietsch, '89, Chairman, and Aaron Goodman, '18, Secretary. A Policy Committee was also appointed, consisting of W. T. Biedler, '10, W. W. Varney, '86, and Aaron Goodman, '18, Chairman.

The Club was formally organized at the following meeting which was held on March 22 at a buffet supper and smoker at the Rennert Hotel. A constitution was adopted and officers were elected as follows: Theodore W. Pietsch, '89, President; W. W. Varney, '86, Vice-President; Aaron Goodman, '18, Secretary-Treasurer; W. H. Blakeman, '05, and John H. Gregory, '95 and the previous three to make up the Executive Committee. Twenty-six alumni turned out at this meeting, bringing along all the old Tech spirit.

At the present writing we have forty paid-up members and are going strong. Luncheon meetings are held every Thursday at the Engineers' Club at 12.30, with an occasional innovation in the way of an evening affair or outing.

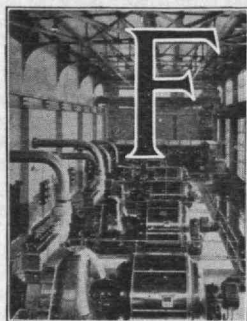
By the courtesy of Bancroft Hill, '11, the City of Baltimore Harbor Engineer, we are going on a harbor inspection trip. With the extensive harbor development now going forward, this should prove a very interesting trip. However, more anon.

Aaron Goodman, '18, *Secretary*,
Baltimore, Md.

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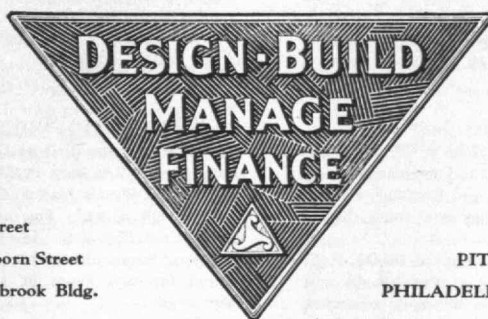
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NEWS FROM THE CLASSES

News from even numbered classes is published in issues dated November, January, March and May. News from odd numbered classes is published in issues dated December, February, April and July. The only exceptions to this rule are those classes whose Secretaries have guaranteed the appearance of notes in every issue. These classes are: 1896, 1901, 1902, 1907, 1910, 1911, 1912, 1914, 1915, 1916, 1917, 1918, 1920, 1921 and 1922. Other classes adhere to the alternate schedule.

Due to strict limitation of space, the Review is unable to publish lists of address changes of members of the associations. When the address of any member is unknown, the Alumni Association office may be used as a clearing house. The Alumni Office in Room 3-209, M. I. T., will supply a requested address or will act as the forwarding agent for any letters addressed to members of the Association in its care.

1873

ROBERT A. SHAILER, *Secretary*, 93 Church St., Winchester, Mass.

The celebration of the Fiftieth Anniversary of the Graduation of the Class of '73 was held in Boston, May 30 and June 1, 1923. The members present were: Francis H. Williams, George M. Tompson, George H. Kimball, Philip D. Borden, Frank W. Very, Henry A. Phillips, Robert A. Shailer, Wm. T. Leman, A. W. Johnston, James E. Stone, Arthur W. Forbes and Frederick Guild.

The above classmates met on Rogers Steps at 10 a.m., May 31, where a group photograph was taken. After visiting the well-remembered rooms in Rogers Building, we taxied over to the new Technology where President Stratton welcomed us and introduced us to the Professors in charge of several of the departments, who described the work the students were doing and escorted the party through their laboratories. President Stratton was our guest at luncheon in the Walker Memorial Building. The balance of the day was devoted to inspecting the numerous shops and laboratories. The Class Dinner was held at Young's Hotel at 6.30 p.m.

The Secretary read letters from the following absent members: Edmund Hayes, Chas. A. Belden, Samuel M. Felton, Edward H. Greenleaf, J. A. Henderson, Wm. E. Brotherton, Henry P. Cogswell, H. Ellerton Lodge and George O. Carpenter.

On June 1 an auto trip through The Fells, The Newtons and to the historic points of interest in Concord and Lexington was taken. Returning through Winchester, a stop was made at the home of the Class Secretary, where lunch was served and a social hour was enjoyed. At 6.30 p.m. ten members of '73 met with the members of M. I. T. Classes '68 to '77 for dinner at the City Club, with President Stratton as the honored guest. Professor Robert H. Richards, '68, presided and called on a member of each class to give reminiscences of their years at Tech. George H. Kimball responded for '73. President Stratton favored us with a very interesting talk on Technology's present and future.

1875

EDWARD A. W. HAMMATT, *Secretary*, South Orleans, Mass.

At the get-together meeting of the Classes '68-'77 inclusive, held at the City Club on June 1, '75 was represented by the following: Dorr, Hammatt, Hibbard, Homer, G. Wilton Lewis, Lincoln, Nickerson and R. B. Smith. Eddy had just gone to Vermont, Mixer was in Minnesota and Wilfred Lewis had started for the West a few days previous, which prevented their attendance. Phipps, the oldest man of the class, who is living in Seattle, could not come, but sent his photograph.

1881

FRANK H. BRIGGS, *Secretary*, Hotel Puritan, Boston, Mass.

Bill Revere has been chosen Treasurer of the Canton, Mass., Institution for Savings.

George Mower is one of the Advisory Council of "The American University in Europe" and his wife is one of the Women's Advisory Council. The Union had its sixth Annual Dinner on March 1, at which the guest of honor was H. R. H. the Prince of Wales.

1889

WALTER H. KILHAM, *Secretary*, 9 Park St., Boston, Mass.

Orrok sailed for Europe on the Laconia, June 7 and expects to visit Germany, Switzerland, Italy, France, Belgium, Holland and England, visiting his old friends in the power game and he states "seeing everything that is new and startling."

At the Class Dinner on April 10, H. J. Carlson, President of the M. I. T. Alumni Association, was present as a guest and gave a most human and delightful account of the Tech activities with which he has been connected as a member of the Corporation and of the Alumni Association. The following list is arranged in order of the men as they sat around the table: Thurber, Carlson, Kunhardt, Laws, Hunt, Lewis, Gilbert, Smith, Hollis French, Wales, Alley, Van Nostrand, Williston, Smythe, Fiske, Underhill, E. V. French, Davis and Kilham.

The conversation began with a recitation on an original scientific investigation along canine lines by J. P. B. Fiske and developed into a recital of the adventures of the perennial "Captain Sims" by G. C. Wales. After Mr. Carlson's address, general conversation followed which lasted until nearly eleven o'clock. We propose to hold the next meeting in the Common Room of the Architectural Department in the old Rogers Building on Boylston Street.

It is with regret that we learn of the death of F. W. Bradley on March 20, 1923.

Fiske is President of the Domestic Oil Heating Co. of Boston. His organization led all dealers in the United States in the total number of retail sales made during the recent contest of the "Nokol" selling organizations.—E. V. French was a member of the Committee on War Memorials for the Town of Andover, Mass.—Frank L. Dame is President of the North American Co., with offices at 60 Broadway, New York City.

On May 1 Whipple retired as a member of the Public Health Council of the Massachusetts State Department of Public Health, which position he had held for nine years. He was recently elected President of the Anti-Mosquito Association of Massachusetts and acted as one of the judges of the Boston University-Technology debate on May 2 on the subject of "Government Ownership of Coal Mines."

The firm of Hazen & Whipple has moved its offices from 30 East 42nd Street to 25 West 43rd Street, New York City.

The Secretary has the following from Frank Sanborn: "I find you are behind times in my address, so I'll bring you up-to-date. I was discharged from the Army on the last day assigned by Congress for the retention of Emergency Officers, December 31, 1921. On the passing of the O'Reilly General Hospital from the Army to the U. S. Public Health in October, 1920, I had been ordered back to my former station in Washington, D. C., Walter Reed General Hospital.

"After discharge I was employed by the War Department as a civilian in connection with the 'Educational and Vocational Training' of the enlisted men; was called 'Assistant Consultant' and placed in charge of the Fifth Corps Men with my headquarters at Camp Sherman, Ohio. The Act of Congress that Spring, 1921, made continuation of such civilian services financially impossible, so they ended June 30, 1921.

"Having resigned my position at Ohio State University while in the services I have stayed away from teaching. At present I am connected with the architect, Frank L. Packard and am superintending the erection of a Women's Dormitory for him at Oxford, Ohio, Miami University. That keeps me away from home quite a bit, but I return for a few days every little while. Put my address in your books as at the head of the letter, 90 Fourteenth Street, Columbus, Ohio."

Arthur Williston has retired as head of the Wentworth Institute.

The Secretary has recently terminated a two years' job as member of the Committee on Revision of Building Laws for the Town of Brookline, Mass., and also completed his work on the Brookline Planning Board in framing the new zoning laws for that town.

The Secretary wishes particularly that all would send him proper notices of any change in address.

1891

HENRY A. FISKE, *Secretary*, 275 West Exchange St., Providence, R. I.

Robert Burns died at the Peter Bent Brigham Hospital in Boston, on April 4. He was born in Charlestown on March 1, 1869, the son of Mark F. Burns, a former Mayor of Somerville. He prepared for Tech at the Somerville High School. For some time he was with the Boston Dairy Company of Charlestown. He was a 32nd degree Mason, a member of the Soley Lodge of Somerville and a member of the Central Club of that city. He served for two years in the city government of Somerville. He was unmarried.

The Secretary has received a number of very interesting letters since the last number of the Review, in which '91 notices appeared, but, owing to lack of space, only a few extracts can be given.

Shattuck has written two long letters from Beverly Hills, California, in one of which he mentions of hearing from several '91 men on the Coast. He

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1891 Continued

states that he is located on the Coast probably for good and is practically retired, although he is still interested in several business propositions in that territory. He invites us to come out there and live and I think is rather sorry for anyone who lives outside of California. The following are some of the interesting items which he forwarded:

William R. Greene died on June 10, 1922, on his ranch at San Fernando, California, where he had been ranching ever since he came to California in 1894.

George Hooper is living in Pasadena and doubts if he will ever return East permanently. Hooper says: "There is a pronounced Tech atmosphere here in Pasadena due to the presence of Dr. Hale, Dr. Noyes, and Dr. Tolman, the two latter being at the California Institute of Technology, which is rapidly advancing to a place among the leading technical institutions of the country. I am, by the way, living in Dr. Hale's former home. It will be a great pleasure to see any '91 men who come this way and I hope they will not fail to look me up."

Leland is of the firm of Leland and Haley, consulting mechanical engineers in San Francisco. He is specializing in heating and ventilating, and has been in business for himself since the San Francisco fire of 1906. They do a good deal of work for schools in that section. His son was recently married.

McKenna writes from Claremont, California, as follows: "Four years ago I gave up business in the East and came to Southern California with my wife and four children. We located ourselves in Claremont, which, as the sign on the Foothill Boulevard tells the autoists, is 'The home of Pomona College' and possesses a Greek theatre, where in ancient times continuous performances were given for three days and nights. Two of my sons promptly married California native daughters. We have bought a number of citrus groves, which is the only form of gambling permitted in Southern California. When we light up our smudge pots it reminds me of the good old times in my native town of Pittsburgh."

Roberts is Chief Engineer, Inter-County River Improvement, Tacoma, Washington. He was State Highway Commissioner for Washington for two years previous to his present work. On March 1 he was to open an office in Tacoma as Consulting Engineer. He is married and has six children.

Shaw writes from Oakland that for several years he has been with the Sheet Rolling Mill Products. He is married and has three children.

Ludington writes from Wenatchee, Washington, that he has forsaken the engineering profession to become local attorney for the Great Northern Railway. The family spend their summer at their home on Whidby Island in Puget Sound. He says that he is a born Republican in a progressive and strong Republican community, a present Master of a Cryptic Council, a past master of a Masonic lodge, a past Commander of a Knight Templar Commandery, a member of the Boy Scout Council, and several other organizations. He says that if any '91 men get as near to him as Spokane or Seattle and will let him know, he will arrange to have important business there at the same time.

Charlie Garrison writes of a trip to Southern California and is very enthusiastic. His son is a petroleum engineer at Long Beach. The Signal Hill Oil Field was opened up two years ago and is now producing about one-quarter of the oil of California. He and Mrs. Garrison visited at Carpinteria near Santa Barbara where they drive oil wells right in the middle of the ocean. This reminds the Secretary that he stopped one night at this metropolis and was well taken care of at a small hotel run by an Eastern lady from Lynn, Massachusetts. It was a breezy night and the palm trees made so much noise that it was very hard to sleep. Garrison tells of many side trips in this vicinity, visiting numerous oil fields, and also Riverside, Coronado Beach, and the other places where tourists usually stop. He took the trip up Mt. Wilson but was not able to inspect the telescope as Dr. Hale (Class of '90) was away and the Observatory locked. He says that he spent some time at Hollywood and sold moving picture machines to some of the studios. The Secretary would like to comment that anyone who can go from the East to Hollywood and sell moving picture machines is some salesman.

The following appeared in a Boston Insurance publication: "At the

annual Brookline town meeting held Tuesday a new building code was unanimously adopted which is thought to be one of the most up-to-date and well written codes in the country. This, by law, was drawn up by a special committee of five, of which Gorham Dana, Manager of the Underwriters' Bureau of New England was chairman, and represents two years of hard work.

"The code embodies the latest information obtained from plumbing tests made by the Bureau of Standards, column tests made by the Underwriters' Laboratories in Chicago and data from the 'Recommended Minimum Requirements for Small Dwellings' promulgated by Secretary Hoover's committee in January of this year."

Swan writes from Washington where he is now located with the U. S. Shipping Board Emergency Fleet Corporation. He has been there about a year and finds the work interesting. He is a member of the Central Survey Committee of the Shipping Board which has been formed to survey and appraise the entire fleet. The shipbuilding business is in a bad way and he thinks there is little hope of improvement for a long time to come.

The Secretary has joined the ranks of the grandfathers.—Donald Chandler Cass, born in Brookline, Saturday, May 12. In my case it took a second generation to get a boy. Wedding announcements are out for the marriage of Lillian Proctor Fiske to Stanley Dennison Howe on June 16 at the Copley-Plaza Hotel, Boston.

1893

FREDERIC H. FAY, *Secretary*, 200 Devonshire St., Boston 9, Mass.

GEORGE B. GLIDDEN, *Assistant Secretary*, P. O. Box 1604, Boston, Mass.

Ladies present for the first time—the record-breaking attendance—the class gift to the Institute of one hundred thousand dollars for dormitory purposes—these are the outstanding features of the Thirtieth Reunion, the most successful event in the annals of '93. Seventy-one men of the class and forty ladies took part in the class celebration at the Wianno Club, on the south shore of Cape Cod, on Friday, Saturday and Sunday, the 8th, 9th and 10th of June. On Monday, June 11, the class was largely represented at the Inauguration of President Stratton, who has honored '93 by acceptance of honorary class membership voted him at his first meeting with the class on the 10th of March. The four days' festivities were brought to a close by participation in the Tech Night Pop Concert Monday evening.

At noon on Friday, members of the class and their ladies gathered at the Algonquin Club in Boston, where they were the luncheon guests of the President of the class, Francis Wright Fabyan. At one-thirty the party started by automobiles for Cape Cod. On the way, a stop was made at the old Governor Winslow mansion in Marshfield, which dates from 1699, a colonial house of much historic interest, where tea was served through the courtesy of Henry Morss. At Plymouth a second stop was made to view the handiwork of our classmate, Roy Beattie, the "Founder of Plymouth Rock," for it was he who, for the Tercentenary celebration in 1920, found this famous stone in its unguarded state upon the beach, founded it in its present permanent setting, and built the handsome canopy which now guards the famous Pilgrim shrine. The Wianno Club, the headquarters of the celebration, was reached about six o'clock, after a journey of eighty-five miles from Boston.

"Fancy Dress Dinner Party. Entertainment and dancing later. Any costume, ugly or handsome, ludicrous or dignified"—thus read the program for Friday evening at the Wianno Club, and the program was strictly adhered to. Fabyan, who measures six feet four or thereabouts, appeared in white baby clothes, pink sash and baby bonnet, with a rattle which served him in place of the customary gavel while presiding at the dinner exercises. Robin Hood and Maid Marian, in Lincoln green, were impersonated by Mr. and Mrs. Biscoe. Farwell Bemis as an Indian rajah and Mrs. Bemis as an Indian princess wore wonderful silk costumes which were genuinely oriental. J. B. Blair and Mrs. Blair were most attractive Spanish dancers. Billy Houck in overalls, jumper and cap, no two of which garments matched or harmonized, and with flaming scarlet socks, looked the part of a locomotive fireman. Jack Hawley, in crimson silk shirt and bloomers, which he brought from the Philippines, exemplified a native Filipino. And so on through the list, a

1893 Continued

recital for which we have not space. The silver cups offered for the two best costumes were won by Mrs. Biscoe and Farwell Bemis.

During the Friday evening dinner, President Fabyan appropriately welcomed the ladies who, for the first time, participated in a class reunion, and in behalf of the ladies the class committee presented to each one a favor consisting of a silver needle case. Mrs. Edmund E. Blake, herself a Tech woman (Clara E. Shepard, '95), graciously replied in behalf of the ladies, and Ramsey Speer responded as of old to the toast "The Ladies." George Glidden, as chairman of the Reunion Committee, presented to the men briar pipes marked "93" in silver inlay, together with tobacco pouches and "the makings," all of which were the thoughtful and appreciated donation of President Fabyan. A silver cup was presented to Mr. and Mrs. Charles V. Allen who, coming from the City of Mexico (solely for the celebration), had covered the greatest distance to attend the reunion. In point of distance travelled, however, J. E. Woodbridge from San Francisco was a close second.

After the dinner the party (or those who needed it) were initiated into the mysteries of roulette, each person being given \$500.00 in stage money for the play, and for an hour excitement was intense around the three wheels. Dancing until midnight concluded the Friday evening festivities.

Saturday morning brought a drizzling rain which reduced materially the number of entrants in the golf tournament. Of those who started, about a dozen played the full eighteen holes, and the three prizes were won by Dillon, Hawley and Dearborn. The rain did not lessen, in the least, the interest in the celebration. The forenoon was spent by most of the party in getting acquainted and renewing old friendships, with bridge and roulette for those who desired indoor sports. The event of Saturday afternoon was the tea at Fabyan's delightful summer place at Buzzards Bay, some twenty miles from Wianno, and fortunately the rain ceased before this motor trip was scheduled. Fabyan's daughter, Mrs. Frothingham, to whom is accorded the distinction of being the '93 "class baby," proved a charming hostess in the absence of her mother, who was in Europe.

The celebration reached its climax at the class dinner "for men only" at the Wianno Club Saturday night, a separate dinner and entertainment being provided for the ladies who, by this time had become well acquainted. While the men's dinner was in progress the annual business meeting of the class was held, cablegrams and letters were read from absent members in different parts of the world, and officers were elected for the ensuing year as follows: President, F. W. Fabyan; Vice-President, H. A. Morss and F. N. Dillon; Secretary-Treasurer, F. H. Fay; Assistant Secretary, G. B. Glidden. The important item of business was the announcement by President Fabyan of the underwriting by a few members, in the name and in behalf of the class, of a fund of \$100,000.00 as our Thirtieth Anniversary Gift to the Institute to be used for the building of a dormitory. The announcement, which came as a surprise to nearly every man present, was received with tremendous enthusiasm. In order that this gift may be truly representative of the Class of '93, the following resolutions were passed by unanimous vote:

In view of the great outstanding need for additional dormitories at Technology,

And in recognition of the Institute's high ideals and training which have made possible for us this great thirtieth anniversary of our graduation,

And in view of the underwriting by some of our members of a gift of \$100,000.00 in the name of the Class of '93 toward the erection of a dormitory building to be begun at an early date subject to specification by the said underwriters,

RESOLVED, That our Treasurer be authorized and instructed to assess every member of the Class \$1.00 with a view to making unanimous this dormitory gift to our Alma Mater;

RESOLVED FURTHER, That the President and Treasurer be authorized and instructed to collect and take temporary charge of the underwritings and assessments amounting to \$100,000.00 authorized as above and to tender and pay over the total of this fund to the President and Treasurer of the Institute in such manner and at such time as may in their judgment best carry out the purposes of this resolution.

J. Ramsey Speer presided at the exercises after the dinner and was an admirable toastmaster. His own address touched upon the serious side of life, pointing out that upon men like ourselves who are in our prime must largely fall the burden of carrying on the world's activities in these troublesome times, and beside laying emphasis upon what we owe in the way of service, laying stress also upon the importance of Technology's training which had been such an important factor in fitting us for service.

Speer then introduced as speakers men who took prominent parts in the Class Day festivities thirty years ago — Bemis, who was Class President in our senior year, who had presided at the Class Day exercises and who, by the way, first suggested and brought about the formation of the Institute Committee which during the past thirty years has become the most important student group at the Institute; Beattie, who related something of the undergraduate history of the class; Taintor, First Marshal on Class Day, who spoke of the '93 men whom he had met on his recent trip around the world; Dillon, Class Day Second Marshal, who spoke of the Thirtieth Anniversary Class Book and the need of coöperation by every member of the class in sending in a reply; Gorham, Class Day Third Marshal, who voiced the general sentiment of the meeting regarding the modesty and fine class spirit of the unknown group of underwriters who had made possible in the name of the class, the Thirtieth Anniversary dormitory gift to Technology; Blake, the Class Day Orator, who lived up to the title in telling of his observations on a trip around the world from which he had returned only a few days before; Percy Thomas, Class Day Statistician; and Henry Morss, the Class Prophet,

who gave extracts from his prophecy of thirty years ago, some of which in the light of experience were extremely amusing. C. R. Boss, in responding to the toast "I have nothing to say," made a stirring appeal for the support of our Alma Mater.

With Sunday came bright sunshine, mild temperature and a rare June day. The event of Sunday morning was the baseball game between the Orange and Black class teams, captained respectively by J. A. Emery and George Glidden.

At the conclusion of the game the winning Orange team performed successfully some evolutions acquired in military drill thirty-four years ago, after which each member was presented with a medal commemorating the victory.

Sunday afternoon saw the breaking up of the party at Wianno, after one of the most enjoyable reunions ever experienced by any class. Most of the party returned to Boston that afternoon in order to be on hand for the Inauguration of President Stratton Monday morning. An event such as this is not only well worth while from the social standpoint of renewing old times and old friendships and extending one's acquaintance, but of far greater significance is its effect in renewing and strengthening in the alumni love for their Alma Mater. Upon such Tech spirit, upon the interest and support of her alumni, Technology must largely depend for her successful advancement.

1895

FRANK A. BOURNE, Secretary, 177 State St., Boston, Mass.

The New York Ninety-Five Luncheon Club was given a rare treat by A. W. Drake on March 14 at the Walker-Lespenard Building of the American Telephone & Telegraph Co. Canfield, Claffin, Coddington, P. B. Cutter, H. E. Davis, Wiggin, Donham, Drake, Gardiner, Hannah, Huxley, Masters, Schmitz, Wolfe and George Nichols were there, also Buck Huxley and Haskins Canfield — junior members — and were certainly glad they came.

After the luncheon, which was most delicious and complete to the last detail, we made a personally conducted tour of the building. All the mysteries of machine switching were made clear to us and we know now all the inside stuff about long distance operations which center at this point for the entire metropolitan district.

Then we saw and heard W B A Y, located on the top floor, the most powerful broadcasting station on Manhattan Island in action. It was intensely interesting. Drake and Canfield broadcasted an impromptu sketch to the rest of us in another part of the building for which a loud speaker was entirely superfluous, which is to say that it was a scream. Altogether, it was a great party and Al Drake as the host was unanimously voted the freedom of the City.

The Annual Dinner was held on April 5, in the Faculty Dining Room at Walker Memorial. Those present were: G. A. Rockwell, H. K. Barrows, H. M. Haven, A. D. Fuller, W. H. Winkley, W. S. Williams, W. D. Parker, W. C. Brackett, S. K. Clapp, F. A. Hannah, F. A. Bourne, E. H. Clapp, H. D. Jackson, Roger Williams, W. S. Chase, Frank Miller, H. C. Whorf. The rest of the evening was spent in the bowling alleys. The bowling was a joyful proceeding. The first prize went to Rockwell's team on the first string; the second went to Fred Hannah's on a large handicap, and Winkley's team carried off the consolation. The best individual score was Harry Haven's, 309; W. S. Chase, second, 285, and the lowest went to the champion hustler of the class, who, though a success in everything he touches, evidently is not a champion at bowling even with the aid of radio-activity — the way he encouraged the ball after it left his hand and often with magical success, we shall not soon forget.

The New York Ninety-Five Luncheon Club gathered at the India House on April 18 for the monthly lunch. Swope gave the Club an unusual treat by staging the luncheon at this venerable and historical institution on Hanover Square. The whole atmosphere and environment of India House has preserved the flavor and romance of the East India trade of a century ago, and appeals vividly to the imagination.

Ames, Belknap, Canfield, Cutter, Crane, Drake, Donham, Gardiner, Hannah, Masters, Nichols, Schmitz, Sheridan, Swope, Wiggin and Wolfe were there.

The coming field day at Saybrook was discussed and it appeared that a good many of the fellows are planning to go this year. Donham, the ardent golf bug, took occasion to fix up a golf tournament with the most enthusiastic golfers.

The New York Ninety-Five Luncheon Club held its last meeting of the season on June 13 at the Engineering Building of the Western Electric Company at 463 West Street. The Club was the guest of the Western Electric Company on this occasion and the environment, the service and the hospitality combined to give us an unusual treat. Gardiner arranged the affair and Mr. E. B. Craft, Chief Engineer, acted as host. The following were present: Ames, Belknap, Canfield, Coddington, Donham, Gardiner, Huxley, Masters, Park, Schmitz, Wiggin and Wolfe.

After the luncheon, the class spent the afternoon in going through the laboratories, which proved to be intensely interesting. This is probably the most extensive organization in the industrial field devoted to pure research work to be found anywhere and is truly said to be the scientific center of electrical communication in the world. It was a great day and a fitting wind-up for a most pleasant series of luncheons throughout the year.

W. S. Williams, Class of '95, of the Mount Hope Finishing Co., was appointed a member of an advisory committee by the Deputy Appraiser in New York to coöperate with the appraisers in the work of classifying dyestuffs and administering the dyes section of the tariff law.



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CIGARETTES

1895 Continued

The Secretary, with his family, sailed for Europe on June 6 on the President Monroe. His address will be care of Morgan Harjes, Place Vendome, Paris. He has been appointed a delegate from the American Institute of Architects to the International Garden Cities and Town Planning Convention at Gothenberg, Sweden. He will spend most of the summer in France and northern Italy, and will also visit Spain, Holland, England, and possibly Germany.

Mr. Franklin T. Miller has taken his family to California and will be back in the fall.

A. L. Canfield writes, in response to inquiry for notes: "I have no 'notes' about myself. Mine are in the bank. Am sorry I have no '95 men's notes. Those I know are N. G."

Samuel P. Hunt, in answer to invitation to join those going to old Saybrook on June 15, 16 and 17, says: "Very doubtful, but will be with you in spirit." He also says that he has taken up work with the Reading Transit & Light Co., Reading, Pa., which is a branch of the Metropolitan Edison Co., controlled by the Barstow Management Association of New York.

W. D. Parker writes: "Met up with Axel Ames on the street in Cleveland the other day—looking hale, hearty and prosperous. He was on his way to Chicago to an automobile convention."

George Defren, in answer to invitation to annual dinner at Walker Memorial, wrote: "Sorry not to be with the good people of M. I. T. '95 next week. I will be attending the convention of the American Chemical Society at New Haven all the week. Kindly transmit my regards to the good souls assembled."

Stowell and Zapf are sending a box of oranges to the '95 outing from Zapf's ranch at Orange, California. Zapf writes: "Tommy Booth and Stowell with their wives dropped in on me, and Swope phoned me from Los Angeles. He and his wife were coming down, but at the last moment were prevented, so I went up and had dinner with them. Stowell and his wife were there too. We had a delightful evening talking over old times. Swope looks just as he did at Tech, and is as unassuming as when we were all Freshmen together, notwithstanding the fact that he is President of one of the greatest corporations in the country. It seemed awfully nice to see Tommy Booth too, and Stowell. Have Tommy tell you about it when you see him. I sent my regards to you through him, and so did Mrs. Z. Tell the fellows that I should be more than delighted to see any of them when they are out this way. Will promise them an interesting auto ride, a cup of tea and all the fruit they can eat. I am only half a mile off the San Diego highway and thirty miles south of Los Angeles. It is not out of the way to stop here at all."

1896

CHARLES E. LOCKE, *Secretary*, M. I. T., Cambridge, Mass.

J. ARNOLD ROCKWELL, *Assistant Secretary*, 24 Garden St., Cambridge, Mass.

As stated in the last issue of the Review the questionnaires for the class book descended upon the members of the class and now the tide of replies is setting back. At the beginning the rate of flow via the Secretary's mail was very satisfactory. Recently the flow has approached a dribble. No final check has been made but roughly speaking perhaps less than half of the class have sent in replies. The Secretary hopes that members who have not filled out their questionnaire will do so without delay and mail it promptly. It is this delay which makes the work of any book committee so discouraging. The replies which have been received regarding subscriptions to the book when issued are very encouraging, as practically everyone in returning his card indicated that he would take a book.

The *Boston Sunday Herald's* account of the Reverend Partridge's device for heating houses by gas has received considerable attention and abstracts and reprints have appeared in various papers.

Announcement was sent out early in June to those who attended our Twenty-first Anniversary at Wianno, these announcements stating that any who desired would be accommodated at Wianno over the week-end of June seventeenth. The number of affirmative replies received, however, was very small, the men being too busy to spare the time. However, Charlie Moat and Mrs. Moat had planned an automobile trip in June and wrote the Secretary that they would be at Wianno over the date mentioned whether any other '96 people were there or not. Wianno is a delightful spot and every year we think that we will plan to be there over a week-end the next year, but when the time comes around we find it difficult to carry out our intention. Perhaps next year we may receive enough affirmative replies to get a real bunch of the class there with some wives to enliven the occasion.

Henry Jackson has left the employ of Monks and Johnson and gone into the manufacture and selling of traps. He wishes to emphatically state that these are not fly traps, mouse traps or rat traps, but are steam traps.

Charlie Hyde has been absent from his duties at the University of California and has been spending some time in Europe. The address supplied by his secretary is in Paris. We hope that Charlie will not be so attracted by Paris as to fail to return to us in due time.

¶ Fred Fuller is another man who finds time and money to enable him to go abroad. He and Mrs. Fuller sailed the last of March for a short vacation and returned in May. They visited some friends at a country place in southern England and later spent a week in England and a week in Paris. Fuller has now reached a position where, according to the "Eastern Underwriter" of March thirtieth, he is the country's leading insurance agent. The twenty-fifth anniversary of the Equitable Agency in Springfield, Mass., was celebrated at the Hotel Kimball in that city on March twenty-eighth, and various representatives of his company were present in Springfield on that occasion. Fuller was really born into the underwriting profession, for his

father, William A. Fuller, was at the time of his death, in 1887, the leading general underwriter in western Massachusetts, and for three years Fred wrote life insurance as a side issue with a small company while he was at Technology, but shortly after graduation he became, on October 2, 1896, a soliciting agent for a New York company, and on March 22, 1898 he took over the general agency of the Equitable Company at first under the name of Fuller and Trask and on January 1, 1903, under the present name of F. W. Fuller, General Agent. He has also a general agency in Boston as well as the Springfield agency. In fact, he acts in a dual capacity of general agent and personal agent, and his success is such that frequently his contracts are beyond the amounts which the Equitable Company will receive, so that he has to arrange with other companies. He confines his efforts entirely to life insurance and in the twenty-five years since his agency started in 1898 the new insurance written amounts to \$77,593,079.00 of which less than \$25,000,000.00 is group insurance. This agency pays annually for more regular business than 160 of the companies which do business in the United States. Thirty-five agents of this agency were paid in 1922 over \$150,000.00 in compensation as soliciting agents. This agency has won various prizes offered by the Equitable Company for writers of life insurance, and it is stated that only ten companies doing business in life insurance in Massachusetts do in the entire state more annual business than Fuller's single Springfield agency. The recent celebration in Springfield included a luncheon and a dinner at which honors, both verbal and otherwise, were heaped upon Fred and his staff.

A. H. Warren, who is Manager of the El Paso Electric Railway for Stone and Webster, spent some time in Boston early in June, attending meetings of the Stone and Webster officials.

Charlie Lawrence, George Burgess and Winthrop Coolidge came on to attend the Inauguration of Dr. Stratton. Lawrence also had a son who received his degree from Harvard this year, *cum laude*, and his son plans to follow it up with work at Technology for a Master's degree. Coolidge also had a son who completed his work at Technology this year in Chemical Engineering. Burgess has received the well-merited appointment of director of the Bureau of Standards in place of Dr. Stratton, appointment being made by President Harding at the suggestion of Herbert Hoover. His preparation for this work seems ideal. After graduating from Technology in '96 he taught physics for two years and then went to Paris for his degree of Doctor of Science, bestowed in 1901 by the University of Paris. After returning to America he served short terms as instructor at the University of Michigan and the University of California and entered the Bureau of Standards in '03, first for two years as Associate Physicist, and from '05 to '13 as Physicist and since 1913 as Chief of the Division of Metallurgy. Under his direction the size of this department has grown from a personnel of one to its present size of fifty-three men. Besides being a member of several scientific societies, Burgess is on the National Research Council and represents the Department of Commerce on the American Engineering Standards Committee. During the war he was adviser to the War Industries Board and the Army Ordnance Department, and in '17 and '18 he was chairman of the Light Alloys Committee of the National Advisory Committee for Aeronautics and likewise a member of the National Aircraft Standards Board. He was the recipient of a silver medal at the Pan American Exposition held in 1915.

Lawrence reports that he and I. B. Hazelton are both Vice-Presidents this year of the Technology Club of New York.

E. S. Mansfield has been exercising his well-known literary ability in the preparation of a war time record of the Edison Electric Illuminating Company and its employees. This has been put through with Eddie's usual efficiency and thoroughness, resulting in a book of which the possessor should feel proud.

The Honorable E. C. Hultman has not been put out of a job as seemed possible, but has had his tenure of office on the Massachusetts Commission on the Necessaries of Life extended one year. The politicians seem to take delight in keeping him in suspense and even to try to get rid of him, and so this year as well as last year the bill continuing him in office was not passed until the very last day of his expiring year, and the probability is that if they had dared, the politicians would not have passed this bill, but they knew that if they did not, there would be a strong public disapproval of their action. Hultman has been the subject of attacks by the profiteers, and according to the *Boston Post* his efforts have probably saved the public from being gouged an extra \$10,000,000.00 by the coal, ice, milk, and rent profiteers. One thing his enemies have succeeded in doing, is in having his appropriation very much reduced, but even with the reduced appropriation Hultman insists that he will carry on. His report (House Document No. 1250) makes very interesting reading. It contains the result on economic studies which should be valuable aids to the consumer. The principal subject considered is that of fuel, but housing is also important and a great range of other subjects included, going even into the price of Thanksgiving turkeys and the cost of prunes.

N. C. Grover, Chief Hydraulic Engineer of the U. S. Geological Survey, left on April fourteenth for a tour of districts in the West, the purpose of his visit being to inspect several prospects under way and to perfect plans for future work of his division, including completion of the survey of the lower Colorado region which is to be started soon.

Joe Harrington has received considerable newspaper publicity recently in connection with the advertisements of "Nokol," which Joe endorses very highly as a satisfactory method of domestic heating. Joe is also now President and Director of the First National Bank of Riverside, Ill., which he reports is something new for him and is proving an interesting experience. The bank has recently moved into a new home in the Owen Block at Riverside and had a housewarming on June ninth.

The Massachusetts Institute of Technology

CAMBRIDGE, MASS.

The Massachusetts Institute of Technology offers Courses, each of four years' duration, in Civil, Mechanical and Electrical Engineering; Naval Architecture and Marine Engineering; Mining Engineering and Metallurgy and Geology and Geological Engineering; Architecture and Architectural Engineering; Chemistry, Chemical Engineering and Electrochemical Engineering; Biology and Public Health and Sanitary Engineering; Physics, General Science and General Engineering; and in Engineering Administration. These Courses lead to the degree of Bachelor of Science.

To be admitted to the first year class, applicants must have attained the age of seventeen years, and must satisfactorily fulfill entrance requirements in Algebra, Plane and Solid Geometry, Trigonometry, Physics, Chemistry, English, History, and French or German and one elective subject. Examinations are required in all subjects except Chemistry, History and the elective, the requirements for which are fulfilled by the presentation of satisfactory certificates. A division of these entrance subjects between different examination periods is permitted.

Entrance examinations are held at the Institute in September. In June, applicants will be examined by the College Entrance Examination Board in Boston, New York, Philadelphia, Chicago and many other cities in America and Europe. A circular stating times and places is issued in advance by the College Board.

Graduates of colleges and scientific schools of collegiate grade, and in general all applicants presenting satisfactory certificates showing work done at another college corresponding to at least one year's work at the Institute, are admitted, without examination, to such advanced standing as is warranted by their previous training.

Graduate courses leading to the degrees of Master of Science, Master in Architecture, Doctor of Philosophy and Doctor of Science are also offered. Special research Laboratories of Physical Chemistry, Applied Chemistry and Science have been established.

PUBLICATIONS

Bulletins of General Information, Courses of Study, Summer Session, Advanced Study and Research, and the report of the President and the Treasurer.

Any of the above named publications will be mailed free on application

For Bulletins and Information address

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
CAMBRIDGE 39, MASS.

1896 Continued

Marshal Leighton has been active in the development of Llewellyn Park at Cape Elizabeth, Maine. This is a delightfully situated tract not far from Portland and is located on Casco Bay. A nucleus has already been formed there of a summer colony which is not ultra fashionable, not in the jazz class, but just suitable for rest and recreation and even seclusion if desired. It would appear to be an ideal place for people who desire a restful summer with all conveniences and still none of the noise and inconveniences of city life. Leighton will explain the proposition to anyone who may be interested.

Frank Hersey mailed the Secretary a post card from Saybrook, Conn. He and Mrs. Hersey were at the Old Saybrook Inn and he reported that he had driven out to the place where the Hartford Yacht Club was and noted sadly "Them days are gone forever."

Late in May the Boston newspapers reported that H. A. Sherman had been in an automobile accident in Marshfield, in which some of the occupants of the car were fatally injured, and Sherman was arrested charged with operating an automobile while under the influence of liquor. The name Sherman caught the Secretary's eye. It is apparently a case of two men of the same name, because one cannot possibly imagine Harry Sherman being in such a scrape. It is a somewhat similar case to that which happened to the Secretary a few years ago where he was confused with a Reverend C. E. Locke who is a rather prominent clergyman. Classmates will agree that there is nothing very clerical about their Secretary.

Mort Sears reports that after cleaning up geological work in West Virginia he went back to the work of adjudicating mineral applications and approving the same for patent. His job is to look after all the government work in the southern division and includes oil and gas lands in Louisiana, phosphate lands in Florida and miscellaneous mineral lands in Arkansas with a possibility of some coal work in Alabama shortly. His most recent job has been the settling up of the Ferry Lake cases in northern Louisiana in the Caddo Oil and Gas Field which was a long drawn out but nevertheless interesting job. The case has been in the court since 1917 and by the Supreme Court decision last January the government recovered possession of several hundred acres of oil land and a money settlement of half a million dollars. These tracts will be put on sale soon under the leasing act.

Jacobs was in Boston for a week at the beginning of April and for another week in June on consultation with an eye specialist. He reports that Frank D. Clark, '96, is this year a professor in the mechanical department at the University of Vermont.

Lucius Tyler is now in his new store at 210 Congress Street, Boston, under the firm name of Church-Tyler Company and specializing in hydraulic lines, and retaining the services of George S. Kermeen who has been with the old company as hydraulic engineer for over twenty years. The Church pumping machinery for all sorts of domestic uses, artesian wells, etc., on farms and estates is well known and largely used.

Len Cotton is pushing his Cotton bodies and trailers for automobiles, his specialty for this year being a Cotton-Beverly body for the Dodge chassis.

George Hewins, who is President of the Power Construction Company at Springfield, Mass., reports that he has a big construction program under way this season and it looks like a very busy year for him.

Dorrance has been down at Ashville, N. C., recuperating from an attack of pneumonia. He reports that he and Jameson have been having a fine time together. Dorrance's stay in Ashville was rather short, but Jameson is planning to spend a considerable period there in order to recover his health. He suffered a serious breakdown in Washington this last year and reached the point where complete rest, good food and fresh air became absolutely necessary.

Bradley Stoughton has been appointed head of the department of metallurgy at Lehigh University, to take up his duties on September 1, 1923. Stoughton has had excellent preparation for this position. He holds the degree of Bachelor of Philosophy from Sheffield Scientific School of Yale University and Bachelor of Science from M. I. T. in '96. He was for six years in the department of metallurgy at Columbia, specializing in iron and steel, and during his long term as Secretary of the American Institute of Mining Engineers he has given occasional lectures on metallurgical subjects. After serving eight years as A. I. M. E. Secretary he resigned in 1921 and has been engaged in private consulting work.

It is with regret that the Secretary announces the death of Miss Almira F. Swan, which occurred on September 23, 1920. Miss Swan was a special student, taking work in biology and geology.

M. L. Fuller has been globe-trotting again and has supplied a very interesting account of his last trip with Mrs. Fuller as follows: "We left New York for the Mediterranean on February 3, soon running into a young hurricane with waves reaching a height of 40 to 60 feet and smashing things generally, notwithstanding the 700-foot length of our ship. At Madeira, instead of being drawn about town in the bullocksleds and sliding down the 'Mount' in the native toboggans, both of which experiences we had enjoyed on a former visit in 1909, we took a trip to one of the deep mountain gorges by 'redes,' or hammocks suspended from poles borne by men, a novel and luxurious method of travelling.

"At Cadiz, Spain, we were dropped one by one from the end of the gangway-stairs into the arms of sailors in a tender at an indefinite distance below as it rose and fell on the big rollers of the open roadstead. Reaching shore at last, we took a train for Seville, with its great Cathedral and Moorish Alcazar. We missed the bullfight, but saw great herds of these animals in the surrounding country and touched elbows with the toreadors in the narrow streets. At Granada, we rambled through the endless Moorish courts and halls of the exquisite Alhambra, and shivered in the fireless hotels. Returning

through Ronda and the grand gorges to the south, we rejoined our ship under the guns of Gibraltar.

"At Algiers, France's African Paris, we enjoyed exploring the narrow, sunless native streets, the strange shops of the bazaars, and watching the dignified Moors and Arabs striding the streets in their flowing robes or squatting on the floors of the native coffee-houses.

"Of Athens, our most vivid recollection is of a hair-raising ride in a modern automobile from the port to the Acropolis, and an equally wild ride back, followed by a four-hour effort to regain our ship from a tossing native tender, a feat accomplished only after our own officers had boarded the Greek vessel and taken charge themselves.

"The narrow Dardanelles, with its poignant war associations, and the Bosphorus, with its high, picturesque, villa-dotted bluffs, were of great interest. Constantinople, in spite of war rumors and fleets of British and American war vessels, proved peaceful, with its wonderful mosques, its bazaars with miles of covered streets, and its great, mysterious underground reservoirs. Ancient Troy was passed after leaving.

"We covered Palestine from Nazareth to Jerusalem, including the Sea of Galilee, River Jordan, and the Dead Sea, in a Dodge Car driven at fifty miles an hour, a rate which no amount of persuasion, even the threat of withholding backshish, could induce the Oriental speeder to reduce. In Egypt, however, we had a delightful, leisurely trip by Nile steamer to Assuan, the Cataracts, the great irrigation dam, and the partially submerged temple of Philae. Of course, we stopped at Luxor and Thebes, visiting the Tombs of the Kings and even sitting under the suspicious eyes of the guards, on the mound of dirt heaped over the entrance of the Tomb of Tutankhamen until diplomacy shall have settled to whom the fruits of the discovery shall belong. In the big dining room of the Winter Palace Hotel, we sat next Lord Carnarvan, little thinking that death would overtake him within a few days. At Cairo, we visited the Citadel, mosques, and pyramids, and made a twenty-mile track across the sands by camel in search of the 'desert atmosphere.' No sheik captured us, but 'he of the camels' did not fail to annex a fair proportion of our cash.

"Turning westward, we visited Naples, Pompeii, Amalfi, and Rome, then sailed for Monte Carlo. None of us broke the bank and the only reason it didn't break us was that we left early. A few of us even bore away a few francs winnings. From here, we rounded Spain, crossed the Bay of Biscay and the Channel to Southampton, sailing thence homeward by way of St. John, N. B."

1897

CHARLES W. BRADLEE, Secretary, 53 State St., Boston, Mass.

The following is noted from the *Chicago Illinois News*: "Announcement of the transfer of F. H. Watts, engineer, maintenance of way, of the Illinois general division of the Pennsylvania system, from Chicago to Cleveland, is made. Mr. Watts is a graduate of M. I. T. Prior to his appointment to Chicago in March, 1920, he was located in Pittsburgh, where he entered the service of the Pennsylvania as a member of the engineering corps.

"S. L. Church, formerly of Baltimore, will succeed Mr. Watts in Chicago. He formerly served as division engineer on the Baltimore division."

The following is noted from the *Boston Herald*: "Bridge plans submitted by Leo Bayles Reilly, Boston Engineer, and accepted by the city of Manchester, N. H., were not more than one-quarter complete and were inadequate as a basis for estimates, Professor Charles Breed, head of the railroad engineering department at Massachusetts Institute of Technology, appearing as a witness for the city, said in superior court today. Professor Breed was called in the suit brought by the city against Reilly to break a contract."

Herbert W. Estabrook writes as follows: "I am 'bashful (How Come!)" and were it not for the fact that you are asking to put one over on the Class of '99, I probably would not inflict the painful reference to myself, which is necessary for the present copy.

"The annual meeting of the Worcester County M. I. T. Alumni Association, which was recently held in the University Club Rooms, Worcester, was not only the largest attended, but also the most enthusiastic meeting in the history of the Association. The unusual attendance was undoubtedly in honor of Dr. S. W. Stratton, recently appointed President of M. I. T., who spoke at length, urging closer contact between the Institute and the country's large industries of all kinds. He spoke especially of the industrial needs of highly trained technical men in the development of rubber, leather, oil, fuel, and the various chemical industries."

Mr. James P. Munroe, Secretary of the M. I. T. Corporation, also spoke on the needs of the Institute, and of the peculiar qualifications of Dr. Stratton as a head for the Institute.

The musical program was in charge of Orville B. Denison, who is well and favorably known by the Institute Alumni all over the country as a musical live wire.

The officers chosen for the coming year were: President, Herbert W. Estabrook, Worcester; Vice-President, Frederick N. Dillon, Fitchburg; Secretary and Treasurer, Ernest P. Whitehead, Worcester; Executive Committee, Edgar W. Norton and Fred H. Daniels, Worcester, and George H. Crocker, Jr., Fitchburg.

Dr. Stratton in closing his address, urged the Worcester Alumni to secure a fund sufficient to cover the tuition of one or two men who would qualify in a competitive examination for the honor of receiving a scholarship. Active plans are being perfected for the carrying out of this suggestion.

1897 Continued

Allen W. Jackson was married to Miss Dorothy Quincy Whiton, daughter of the Honorable Lucius E. Whiton, in New London, on April 28. Mr. and Mrs. Jackson will reside in Cambridge.

Alexander H. Nelson writes as follows: "I am willing to be reported as having charge, in the capacity of County Engineer, of considerable road and bridge improvement and reconstruction in Atlantic County, N. J. We have been spending, approximately, \$1,000,000 a year for four or five years in an effort to put New Jersey, or at least this part of it, back into the standing which the State formerly enjoyed of having the finest roads of any state in the Union. To fill in spare time I am attempting, as President of the company, to look after the business end of operating the Penn Hall School for girls at Chambersburg, Pa., where we have a registration of 225 students, and a plant, reconstructed within the last three years, that is up-to-date in all of its appointments. Any additional spare time is given over to the interests of the Chambersburg (Pa.) Hosiery Co., of which corporation I have served as President for a number of years."

William C. Potter, President of the Guarantee Trust Company of New York, was married to Miss Rose Saltonstall of Boston, on March 16.

Oswald C. Hering, of New York, gave an address on Greek Letter Fraternity House Architecture, in Washington, on the occasion of the D. K. E.'s Seventy-eighth Annual Convention. This address received unusual commendation.

Edward Motch of Cleveland is reported well and flourishing with a son at Yale who would have come to Technology had we dormitories; more's the pity.

Edgar Hawkins, of Rochester, writes that his son expects to enter Tech in the fall. Bully for him.

C. B. Breed sent in the following story in regard to Wilfred Bancroft. Perhaps Bancroft should have "made hay while the sun shone." "Tom Weymouth dropped in at the Stute last week to see Charlie Breed and get him to put Tom in touch with some deserving youthful graduate who desired to attain wealth early in the Gas business. Tom is President of the Iroquois Gas Corporation.

"At noontime, the duet wandered over to the University Club, and were discussing matters of moment when Wilfred Bancroft blew in. Wilfred had just cashed in an endowment policy, and he was some relieved to find two such trusty gentlemen right at hand to help him spend some of it, and to tell him just how to invest the balance. Observing that Tom and Charlie were a little suspicious at finding Wilfred so flush and to prove that he had come honestly by the 'cash on hand,' Wilfred produced a long envelope and passed it over to his associates for their personal examination.

"On opening the policy, it appeared from the answers given that Wilfred had been reasonably accurate and altogether truthful down to Question 17, which read 'To what extent do you use intoxicating liquors?' Ans. 'One glass of beer a week.' Obviously, it was prudent to stop right there for a moment and analyze. Before any progress could be made on the subject matter, Wilfred insisted, although Tom and Charlie cautioned him of the imprudence of his position, that he must explain.

"Wilfred's story was this—that twenty years ago, when he took out the policy he told the examiner the whole truth (whatever that may have meant in Wilfred's young life) and that he was so astonished when the policy reached him and he found how this particular question and answer read, that he immediately wrote to the Penn Mutual and appraised them of the error and, for the second time in his life, without any equivocation or mental reservation, he told the truth about his use of intoxicating liquors. Obviously, Wilfred fully expected to pass out in a drunken brawl, for not until the Insurance Company had sent the following letter which Wilfred proudly produced from the same big envelope did he rest easy or drink upwards of one glass of beer a week. Wilfred says it seemed an eternity before he got this letter of reply from the Company and that during that long period he almost became reformed.

"Here is a copy of the letter written on April 13, 1908 by the Penn Mutual Life Insurance Company.

"Our representative, Mr. Albert L. Gould, has handed to us your letter of the 11th instant with reference to your recent application for insurance to this Company, on which we issued policy No. 406170, and in regard to your reply to the inquiries of our examiner concerning your use of liquors.



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"I take pleasure in advising that this policy is issued to you with the understanding on our part that you are at this time temperate, and that your use of intoxicants is not confined to any certain number of drinks each day or each week."

A. H. Pugh, Jr., writes: "Have just taken physical examination for promotion to Lieutenant-Colonel in Reserve Corps. Of course, it may not go through."

Jere R. Daniell writes from Groton, Conn. — Electric Boat Co. as follows: "The other day a cute little note arrived on my desk inviting me to make a slight contribution to an association which I joined in Boston some thirty years ago. I understand that during the past year you have become the cosmic protoplasm from which these notes are emitted in annual streams, which following Einsteinian laws eventually make an impact on our cerebral

1897 Continued

mass with the usual resultant emanation of heat and *perhaps* checks.

"Now all this is good news, for after three years in Spain, following three previous years in the same highly cultivated country, I hardly dare ask of my old friends, so many intimates having passed along the 'western way.'

"Science progresses, but a diligent reading of scientific periodicals has not enlightened me as to whether the U. S. government is yet considering changing the weight unit from tons to 'Bradlees.'

"Einstein says motion produces increase in mass. Now my motions are so continuous and extend over such large periods of time, that I figure that my mass must have at least doubled in the past seven years. It does not appear in my weight, however, but possibly the fact that a large portion of my motion has been carried through by means of the assistance of Henry Ford may have some effect on the pure gravitational intensity acting on my massive self.

"Some day I am going to write a book, entitling it '10,000 miles through Spain in a Ford.' Trusty 'John Henry' in three years carried me from Cartagena on the South coast to Santander on the Bay of Biscay—from Valencia to Madrid—to San Sebastian, Bilbao, Segovia, Toledo, Leon, Burgos, Salamanca; over the 4000-foot passes in the Sierra de Guadarama, through the defiles of the Picas de Europa across the plains of La Mancha and the country of Don Quijoto. There is hardly a spring on these high roads that has not supplied our steaming radiator, nor ten miles of road in which we have not punctured a tire. We have been pulled into town by bullocks, driven by the famous Guardia Civil; put up by night in strange 'Pasadas'; been chased by the fierce and bloodthirsty Spanish 'Chinche'; pursued and tormented by the carnivorous Basque fleas; half-blinded in the acrid summer dust of the Southern Spanish desert country where night autoing is the only relief.

"Then we have built submarines—Four fine boats for the Spanish Navy. We believe they are the finest submarines afloat in Europe today—Fine sixteen-knot boats that can make seventeen if required, and eleven knots under water. Quick, easy handlers and splendid sea boats. Two more will be finished this fall, when I must return to look after the trial.

"I read with interest the long and interesting notes from the Class of '97 in the May Tech Review. Certainly our class is given to reminiscing and has an insatiable desire to rush into print. I sure was sorry not to be able to get home with you all to celebrate our mutual twenty-fifth birthday last year. Will there be any '97 gathering this year and if so, how and when and where? Now I am here, I want to see you all again and say howdy at least before I sneak back across the water and recommence submerging myself fifty meters deep below the azure waters of the Mediterranean, where the ink fish grow that we eat for dinner, if you like them.

"No prohibition there and no hunting call for house heating in winter. The central heating systems consisting of charcoal braziers hung under your dining room table with foot rests on the side and a table cloth hanging all around. You sit around the table and stick your feet under same and the part of you remaining outside shivers. Shivers all winter long! Just one long shiver except when you bake it out at noon in the sun.

"And in summer! Three months of solid sun and cloudless skies and continued perspiration—Day and night—Night and day—And perpetual mosquitoes and plenty much malaria to scare you if you are not bug-proof like myself.

"Fortunately, we are not all the time on that southeast coast. Business calls us often to Madrid 300 odd miles away, 2000 feet up on the plateau with snow in sight on the mountains for half the year—And relief always at hand by flivvering an hour's ride away.

"Now will get this off as I must make an effort to work a little even though this is supposed to be vacation.

"Let me know if any '97 plans are in view for the summer and if I will be likely to find you at office during June in Boston. If possible, want to hunt up Paul Delano down in Plymouth.

"Best regards to yourself and all the men you see and good luck to you in deciphering this scribble."

1899

W. MALCOLM CORSE, *Secretary*, National Research Council, Washington, D. C.
BENJAMIN S. HINCKLEY, *Assistant Secretary*, 112 Water St., Boston, Mass.

R. J. Clausen, who pursued most of his studies with '99 men, but who graduated with '00, is in a quandary as to whether he should attend the reunion of '99 or that of '00. The Secretary has written him that he would certainly enjoy '99's Twenty-fifth Reunion.

Charlie Corbett gives his new address as: Dorr and Corbett, Publishers' Representatives, Old South Bldg., Boston, Mass.

C. W. Brown writes: "Southern New England for the Twenty-fifth Reunion sounds good to me."

The following letter comes from Allen Loomis, Elkhart, Indiana: "It is two years since the automobile business became too highly centralized, and standardized for me, and I have not felt that I could send you any news until I should be back in dividend column. During this time, I have been experimenting my well-equipped little shop, and taking out patents with the help of Arthur Brown, II, '99, after choosing a line of inventions which appears to me to offer a good field, practically untouched by men with technical training and practical experience. My special training in naval architecture long since became a purely cultural achievement, enabling me to enjoy reading sea stories and wish for a sailboat, except for a year in government employ during the war, when it was turned to the fairing of monocoque fusilages.

"I hardly know how to break to you the nature of my experimental work. Ninety years ago, Boehm, the inventor of the Boehm flute, formulated his law of resonance, which neither he nor anyone else has been able to conform to, until an M. I. T. graduate with automobile experience and two years' experience teaching mechanism, applied differential mechanisms to the problem. Naturally, although I have built some of the classical instruments, practical considerations compelled me to turn to the field doing the biggest business. This city alone ships over fifty thousand of them each year. If people will play them, they ought to be made as nearly in tune as possible. Some day I hope to return to improvements on the classical woodwinds, but for the present?—you have guessed it. I am a saxophone engineer."

The Secretary received the following announcement about Ted Hammond: "Mr. Clarence Beardslee Fisher announces the marriage of his sister, Mrs. Florence Eva Pelletreau, to Mr. Edward Hosmer Hammond, on Saturday, the twenty-fourth of March, one thousand, nine hundred and twenty-three, at The Ambassador, City of New York." I am sure that Ted is in for congratulations, and any members of our class who are in New York, will find him at home after the fifteenth of April at the Belnord, Broadway and Eighty-sixth Street.

Clarence Renshaw contributes the following item in the form of a testimonial to the Institute: "Recently, I was actively interested in a patent suit for our Company and was preparing to go on the witness stand. Knowing that it is customary for witnesses to qualify, I was asking our attorney just what he wanted me to bring out in this process. He told me that I needn't say very much, as he felt sure the Judge would recognize that a graduate of the Massachusetts Institute of Technology was qualified to testify about anything."

The following clipping was noted in the *Boston Herald* for May 13: "Henry C. Eaton, since 1917 chairman of the public welfare board of Waltham, yesterday tendered his resignation to Mayor Beal, to take effect immediately, as tomorrow he goes to Southbridge to take a position with the American Optical Company. He is a native of Waltham, and a graduate of the Massachusetts Institute of Technology. He has been prominent in municipal affairs for several years and has served as chairman of the board of aldermen, and at one time ran for mayor. He also is identified with the Boy Scout movement."

Clifford M. Swan, Consulting Engineer in Manville, N. J., has recently done considerable work in acoustics for the elimination of reverberation. An oilcloth ceiling full of small holes over a thick layer of felt is the device described in a recent dispatch from *Science Service* which is too long to quote in full.

1901

ALLAN WINTER ROWE, *Secretary*, 295 Commonwealth Ave., Boston, Mass.

From the sacchrine fastnesses where he has remained in seclusion for lo! these many years, Ned Brigham has recently conveyed the glad intelligence that on February 1, 1922, he assisted at one more service to the community in the birth of his fourth child, Louise Emery Brigham. It would seem from the above date, that the rate of diffusibility is somewhat impaired by the viscosity of sugar solution. One can hardly blame our recognizedly inefficient postal service for the entire delay. Ned comments further that your Secretary will have to go a long way to beat this record. The inference is, the writer assumes, in relation to the tardiness of the receipt of the information, as the other possible conclusion involves a salaciousness of thought which should be far from our pure Edward. Under present occupation he reports either "Lame" or "Same;" the chirographical deficiency of his early education persisting in his later years rendering an exact evaluation of the word impossible. The writer regrets to learn that business conditions have not improved.

A poignant appeal from the alumni secretary's office seeks information of the whereabouts of Theodore F. Lange and Wingate Kelley. In regard to the former, the writer is wholly at a loss, as there is no evidence in the archives of the class of any contact in recent years. At the time, however, that the twentieth anniversary was in process of formulation, Win Kelley was said to be in Chicago. This statement is printed here in the hope that it may reach the eye of someone who will be able to throw some light on the whereabouts of either of these men.

Several changes in address have been noted: Waldo Wildes has emerged from his post office box and is now living at 35 Thayer Street, Rochester, N. Y.; B. G. Mackintire is now at the Edgewood Arsenal, at Edgewood, Maryland. Joe Philbrick is at 67 Midland Avenue, Arlington, New Jersey. William M. Vermilye, tenderly remembered by many members of the class as well as by the older generation of purveyors of good cheer in Boston, has left the home of his birth and is now supporting the colony of the late and unlamented Roger Williams, his headquarters being, 1406 Turks Head Building, Providence, R. I. There is a singular felicity in this. Was it not Oliver Wendell Holmes who said, "that after centuries of civilization, man was only imperfectly monogamous?" Frank Baxter is at 1817 K Street, N. W., Washington, D. C. The preponderance of capitals in this address is probably a reflection of residence. [Pretty poor stuff.—Ed.] Arthur Eveland has gone back to Mexico, quite recovered, we trust, from the unfortunate accident that brought him north.

The University Club, 2A Bucarlei 35, Mexico, D. F., is his present address. One admires the outspoken candor of our Latin-American Brothers as shown above. Charlie Danforth, undoubtedly stimulated by the example of so many of his illustrious classmates, has crawled into a post-office box

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1901 Continued

numbered 448 in Youngstown, Ohio, and George I. Cross, under similar impulsion, has followed Danforth's example, only his box is in Fort Benning, Georgia, and he chose number 336. Eddie Fleming is with the A. S. & R. Company in Tacoma, Washington. Howard Wood at 321 Hillside Avenue, Nutley, New Jersey, and Greta Gray, one of the few representatives of the more deadly sex which ornamented the Class of 1901, is now a professor and lives at 114 High Street, New Haven, Connecticut. [We cannot solve that sentence, but it follows copy—Ed.] Thus ends the tale of your scribe. Letters will go forth shortly to you all seeking those intimate personal details which apparently you are so loath to impart.

1902

FREDERICK H. HUNTER, *Secretary*, Box 11, West Roxbury, Mass.

BURTON G. PHILBRICK, *Assistant Secretary*, 585 Boylston St., Boston, Mass.

Nine members of the class gathered at the Riversea Club, Saybrook, Conn., — the scene of our happy Twenty-Year Reunion, — on Friday evening, June fifteen, for an informal outing. Place, Montgomery Baldwin and Manley came down with Vice-President Hammon by train from New York, Reynolds and Walker came over the road in Ike's Chevrolet, and Mathesius and Hunter arrived soon after supper. The Clubhouse was shared with a similar informal group of the Class of '95 adding to the enjoyment of the week-end. Saturday and Sunday were fine June days, warm but not too hot and just right for outdoor sports. Golf was the main diversion and Manley held the edge on the bunch in the long run though Place bested him on one or two rounds. Harry's last round of 88 was the best card for either class this year and one better than the best card we heard of last year.

Baldwin made Friday evening tuneful, but unfortunately had to leave Saturday. At a Class Meeting held on Saturday evening, Montgomery was elected President of the class, Patch was chosen Vice-President for Boston, Hammond was confirmed as Vice-President for New York, and Lockett was re-elected for Chicago. Burt Philbrick was re-elected as Assistant-Secretary. It was voted unanimously that another informal outing should be held at the same place next June and each man pledged his efforts to get out at least one other classmate for 1924.

A fishing trip by the Course IV contingent, who turned in a lower score than any of the golfers, cards in the evening and other diversions made up a most enjoyable program. The party dissolved on Sunday afternoon, except that Reynolds and Walker stayed over to drive back on Monday morning.

Words hardly convey what a pleasant time it was for those classmates who attended, nor what a satisfactory place for an outing the Club provides. All up for next year.

Mr. and Mrs. Steve Gardner, Grant Taylor, Dan Patch, Doc Williams

and Hunter were the classmates who took in Tech Night at the Pops on June 11.

The Chicago bunch claims an attendance of 56% of the possible classmates at the Annual Dinner at the Tech Club of Chicago held on April 5, at which Dr. Stratton made his bow to the Tech men of Chicago and vicinity, and they challenge New York or Boston to show a better proportion. We congratulate the Chicago delegation on this good showing. If we could equal this percentage in either Boston or New York we should have some turnout. Those present were Alsberg, Rob Brown, Pete Curry, Cutter, Fitz Gerald, Dana Fisher, Paul Hansen, Ken Lockett and Les Millar. A more colorful account of this gathering will appear in the next issue of the *Retort*.

A Class Dinner was held at the Tech Club of New York on May 21, those present being Ned Baker, Fruit, Hammond, Hathaway, Mathesius, Montgomery, Joe Philbrick and Clyde Place. Hammond was chosen Vice-President for New York, succeeding Ned Baker who has carried the job for the past two years. The address of the new Vice-President is c/o Elliott C. Brown Co., Inc., 70 East 45th Street, and he will be glad to hear from any classmates invading New York either temporarily or permanently.

Chauncey Manning is Mechanical Engineer for the Fuller Brush Co. of Hartford, Conn., his residence and mail address being 303 Enfield Street. — Lou Cates is promoted so often nowadays that we are going to keep his name set up in type. On May 11 he was elected Vice-President of the Utah Copper Co., succeeding Colonel D. C. Jackling, who became President of the Company. Cates had been General Manager of the Company, also of the Bingham & Garfield Railway. He likewise carries on fifty-seven other activities in Utah and vicinity. — George Seabury is Manager of the Providence Safety Council and will put in his time making Providence as near fool-proof as possible. His residence and mail address is 233 Armington Street, Edgewood, R. I. — A card from Dunc Franklin dated May 31, and mailed from Paris, tells that he is spending a few weeks in France and England. He also mentions having been in Montreal on May 3 taking dinner with Freddie Allyn and Gilbert Townsend. — Geromanos at this writing is sailing on the Yacht *Sunbeam*, one of the contestants in the Ocean Race from New London to Bermuda. — A note from Major Henry L. Green states that he is still in Paris on the work of registering the graves of the Americans who fell in the War. — Cummins, who is Agent for the Buick and Star cars in Redding, Calif., had a broadside in a recent issue of the local paper claiming the greatest sale of cars ever made in one month. He gave the names of the purchasers and the make of car sold, and the list was most impressive. — In the issue of *Collier's* for June 16, we noted a letter signed "Dan Patch, Stoneham, Mass., commenting on certain characters illustrated in some recent fiction in this

1902 Continued

popular weekly. The Editor had headed "Dan's" letter "This is Sense" in contrast with another on the same subject, which was headed "This is not Sense."—Harry Pond is back again in this country and can be reached through the U. S. Steel Products Co., 30 Church Street, New York. Since receiving this address from Freddie Allyn, who saw Pond in New York, the last of May, we have been unable to reach Harry directly, as he is away from Gotham on an extended business trip.—Bobby Pope writes from Seattle that he will be in Alaska this summer. He expresses his intention of entertaining the entire class at his Camp in Alaska at some future date. — Say when, Bobby!—The firm of Skinner, Sherman & Esselen, Industrial Chemists, (Boston), have moved their offices from 248 Boylston Street to 276 Stuart Street, where they occupy the entire top floor of the building. Classmates may remember Stuart Street as the little Street that ran between the Art Museum lot and Trinity Court, one end being on Dartmouth Street, and the other end at the door of the Tech Lunch Room. They would hardly know the street now, as it is becoming one of the most important thoroughfares of the City, having been carried eastward to Eliot and Washington Streets, and westward to Huntington Avenue. The building occupied by S. S. & E. is one of the new business structures which are going up on this important street. It is only a stone's throw from the Cadet Armory. This change to larger quarters enables the firm to include their offices and Laboratory (formerly the Boston Bio-Chemical Laboratory) under one roof, so that not only Sherman, but Burt Philbrick, are to be found at the above address.—Charlie Stover of Providence is on an extended trip to the Pacific Coast and Canada.—Wade Wetmore has left Anyox, B. C., where he has been located for a dozen years with the Granby Consolidated Mining, Smelting & Power Co., and is taking a vacation in California. We learn from a relative that Wade is married and has a son two years old. With his family he spent the winter months in Woodland, Calif.

George D. Rogers died in Gloucester, Mass., on March 2. Rogers has made his home in Gloucester ever since Tech days, but has never taken an active interest in class affairs. He was for some years in the Traffic Department of the New England Telephone Co. We have never heard of his being married.

Classmates will learn with deep regret of the death of Wadleigh, who, though he was at Tech with us only a year and a half, left a deep impression in the hearts of many of his classmates.

"Lieutenant-Colonel John Winthrop Wadleigh, of the United States Marines, died at sea of pneumonia, April 3 on board U. S. Hospital Ship *Relief* off the west coast of Mexico.

"Colonel Wadleigh was born in Portsmouth, N. H., on December 27, 1879, a son of Rear Admiral George H. Wadleigh, U. S. Navy. He prepared for Technology at the Newton, Mass. High and at Boston English High, and entered with the Class of '02, taking Course I, and remaining at Tech until the middle of his sophomore year, when he left to take an appointment as 2nd Lieutenant in the Marine Corps.

"His career was one of more than usual variety and travel, serving on the *Rainbow* and *Raleigh* in Chinese, Japanese, and Philippine waters. On shore duty in the Philippines he saw service in the suppression of the Philippine insurrection. In connection with his Asiatic duty, and later Marine commands on the cruiser *Minneapolis* and battleship *Louisiana*, he twice went around the world. After attaining the rank of Major his shore duty was at Annapolis, Washington, Quantico and Haiti.

"In 1921 Wadleigh was appointed to the staff of the Commander in Chief of U. S. Fleet, being senior Marine Officer afloat and virtually in command of all Marines at sea, serving on this duty until his death.

"Colonel Wadleigh's outstanding trait was his loyalty to the service, and ability to inspire morale and discipline into his command. He fought continually the peace time tendency to 'let down' and 'stay ashore,' believing that the Marine slogan 'Semper Fidelis' meant eternal preparedness and fitness, maintained through constant study and drill. In his going, the Corps has lost a strong leader.

"In 1910 he was married to Mary M. Remy of Washington, D. C., a daughter of Rear Admiral George C. Remy. His wife, with two young sons, John Remy and George Remy of Newport, R. I., survive him."

1903

CHESTER S. ALDRICH, *Secretary*, 10 Beaufort Road, Jamaica Plain, Mass.
GILBERT H. GLEASON, *Assistant Secretary*, 25 Huntington Ave., Boston, Mass.

The Twenty-Year reunion at the Wianno Club, June 8-10, was an unquestioned success, and although the weather on Saturday was so stormy that outdoor sports had to be postponed for the most part, the men generally expressed themselves as glad of the improved opportunity of talking things over and renewing old acquaintances.

In all, thirty-five men attended the reunion as follows: C. S. Aldrich, J. F. Ancona, F. G. Babcock, S. P. Brown, G. C. Capelle, H. Crosby, F. W. Davis, R. W. Eaton, M. Y. Ferris, S. A. Foster, G. H. Gleason, L. B. Gould, C. F. Green, G. M. Greene, I. T. Haddock, J. W. Howard, R. F. Jackson, R. King, R. J. MacGregor, H. C. Merrill, E. H. Millard, D. D. Mohler, H. S. Morse, R. H. Nutter, F. A. Olmstead, H. H. Potter, W. P. Regestein, W. F. Robertson, E. J. Ruxton, J. E. Sears, A. J. Scholtes, H. A. Stiles, C. P. Waterman, W. H. Whitcomb, and G. B. Wood.

Olmstead from Hood River, Oregon, headed the list for travelling the longest distance and Potter from Perdue University, Lafayette, Indiana, came next. The clubhouse is situated right on the ocean and a number of the fellows enjoyed a dip in the briny on Sunday. Of course, Ike Haddock

headed a fishing party and we expect fish will be scarce out there for the next week. There was a fine eighteen hole golf course and on Sunday the golfers took full advantage of it, incidentally leaving a few balls in the nice little pond at the ninth hole to amuse the fishes.

The tennis courts drew their devotees and it is said that Whitcomb swings no mean racquet.

The appointments of the Club and the two cottages we used were above reproach and the food excellent.

Saturday night the class had a special dinner served in a private dining room at which thirty-two were present, followed by a business meeting. At the meeting, officers for the next five years were elected: for Secretary-Treasurer, Chester S. Aldrich; for Assistant Secretary-Treasurer, Gilbert H. Gleason. A regional committee was also appointed, consisting of thirteen members, one in each section where enough '03 men are located to make it practicable, and subject to substitution by the Secretary as may become necessary. The object of this committee is to get a closer and more personal contact with the class members and to supplement the work of the Secretary in that respect.

The first arrivals at Wianno got there soon after five o'clock Friday and by midnight thirty had come. Two or three could not come until Saturday night, but all felt that the time was too short to talk all they wanted to with each of their friends. We all got acquainted with some men we had hardly known before, first names being the rule, and each felt it was his loss that he hadn't known them years ago. It seems to have taken some years of separation for us to appreciate the full value of good fellowship in our own crowd and many of the men remarked it was too bad that so and so wasn't able to be with us to enjoy it. A number of men wanted to come and couldn't and letters of regret from them were read at the Saturday night meeting. After the business meeting, at which Gleason presided as Chairman, each man got up and told his experiences since he graduated, and the Secretary nearly wept at his inability to write shorthand during this most fascinating narration which lasted until 10.30.

We had some political notables there too; Mort Ferris who is serving his third term as Senator in the New York Legislature, Ed Ruxton who is Alderman in Springfield, Mass., and also still speaking politically, Ralph Eaton, City Engineer of Providence, R. I.

Mort Ferris ran on a dry ticket and evidently made it without even safety tread tires, while Ruxton says they can't make the police in Springfield behave so but what they will arrest even aldermen for speeding, — meaning some other alderman of course.

Of course, Robbie was there, and especially so after some evil spirit aroused him at 6.30 on the cold gray dawn of the morning after. The only thing that prevented him from meeting an untimely and violent end was the powerful hold Morpheus had on the inmates of the house, so that nothing more dangerous was hurled at him than fiery epithets through closed doors.

Hewitt Crosby brought the portfolio of class pictures taken in 1902 and there was much sport in comparing the pictures with the originals today.

Scientific poker and bridge competed with story telling as indoor sports, but when it comes to silver tongued oratory we have to hand it to Cap Capelle.

It is impossible to recount all the happenings of interest to the absent friends in the space of this brief report, necessarily hurried to get it in under the wire for publication, but for the time being let it suffice to say that Sunday, a day of brilliant sunshine, came and went all too soon. One after another said good-bye and good luck till the next reunion and went his way until now it is a memory.

The Secretary wishes to thank the members of the Reunion Committee whose efforts contributed so greatly to the success of the affair. Their services were indispensable and much appreciated.

1905

ROSSELL DAVIS, *Secretary*, 19 Thorndike St., Beverly, Mass.

S. T. STRICKLAND, *Assistant Secretary*, 26 Pemberton Square, Boston, Mass.

And Noah said, "let it rain." It did, almost continuously, for the first two days of Reunion, but the dampness had not the slightest effect on the jovial crowd of Fives and Wives which assembled at East Bay Lodge, Osterville.

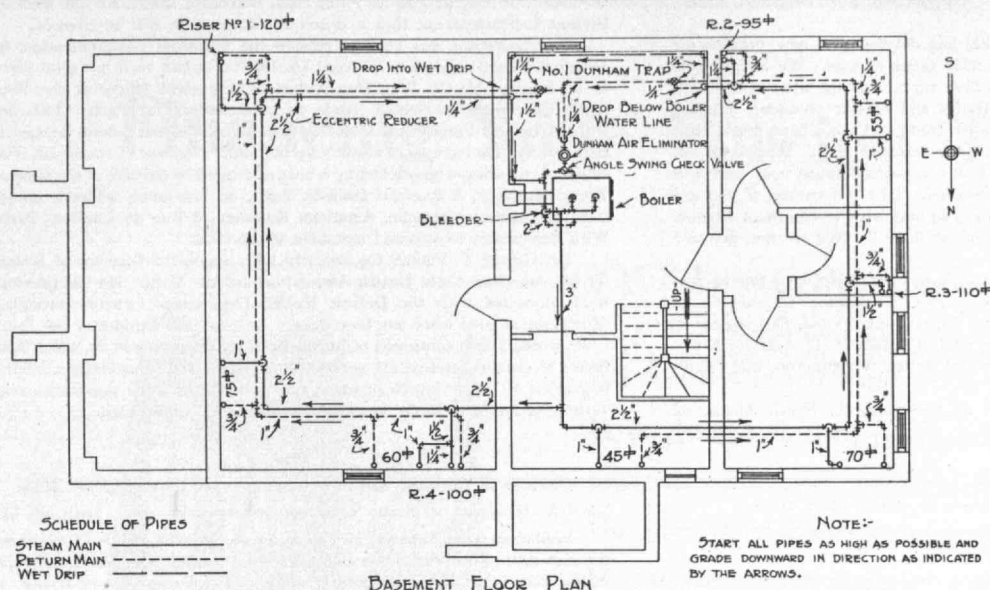
Thirty-one reported Friday noon at Walker Memorial, where we had luncheon at special tables in the main dining room. As we left, a "Five" yell was given, followed by a big "M. I. T." We settled ourselves in ten autos, each with a big white banner on behind with a red '05 that could be seen half a mile.

The first stop was at Strickland's summer home in Plymouth where we were greeted by Sid and Mrs. Sid who had opened the house for us. After an inspection of the beautiful place, refreshments appeared and we were soon off for Osterville.

We found East Bay Lodge a most attractive place, somewhat back from the beach, but in every way all that could be desired. Friday night, adventurous spirits tried to locate a country dance said to be going on somewhere, but finally returned to find a dance in progress at home.

Saturday was mostly indoors. A challenge for a championship baseball game had been sent '08, who were within two miles, but they refused to play. Why? Because they had arranged a tug-of-war and fat man's race for that afternoon. An attempt was made to wake them up, but to no avail. They were intent upon that fat man's race. But old Jupiter Pluvius was looking on and decided there should be no fat man's race and there was not.

In the afternoon, a committee of Mesdames Boggs, Killion and Dissel,



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by the Dunham Air Eliminator, and the water returns naturally to the boiler.

No troublesome air valves are used on the radiators. Hot water pattern radiators with top inlet connections are required. The end of each steam main is vented through a Dunham Air Line Valve into the return piping, and is dripped through a wet drip pipe directly back to the boiler. It is necessary that the steam pressure be automatically regulated by a sensitive damper control.

This is the last of a series of advertisements appearing this year, describing the Dunham Vacuum Heating System, The Dunham Return Heating System and the Dunham Home Heating System

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1905 Continued

assisted by their husbands and George Jones, arranged a big dinner with decorations and favors. Jones was toastmaster, Killion at the piano, 'nough said. Original songs were sung, a zobo band performed and sleight-of-hand was exposed. After dinner, all motored to a dance in Hyannis. On our return to the Inn, there started an impromptu program that extended to an hour we shall not record. Dances, vaudeville skits, etc., were put on until Louis Killion, in a Scotch costume that brought tears to the eyes, sang two Harry Lauder songs which left us with aching sides.

Sunday was fair and warm, as promised. After pictures had been taken by the many official photographers, all went for a swim at Wianno. The water was cool, so we turned to the next feature, a game of indoor baseball, in which the umpiring was even worse than the playing.

After dinner, bags were packed and by four o'clock the Inn had resumed its accustomed dignity and one more '05 Reunion was over. There were forty-one present, of whom sixteen were wives. Here they are: Charlie and Mrs. Boggs, Harry Buff, Prince and Mrs. Crowell, John and Mrs. Damon, Ros Davis, Dick and Mrs. Dickerman, Toots and Mrs. Dissel, Harry and Mrs. Donald, Walter Eichler, Andy Fisher, Lawrence and Mrs. Fuller, Wesley and Mrs. Gilman, Fred Goldthwait, Bill Green, Charlie and Mrs. Hawkes, Charlie and Mrs. Johnson, George Jones, Louis and Mrs. Killion, Bob and Mrs. Lord, Grove Marcy, Al and Mrs. Prescott, Ralph and Mrs. Segar, Sid and Mrs. Strickland, Peter and Mrs. Widen, and Elmer Wiggins. A more congenial crowd could not have been selected and all are looking forward to the next get-together. The committee — Boggs, Fisher and Strickland — did a fine piece of work which was fully appreciated.

When the photographs are available and the reports in, there will be issued a Reunion number of *The '05 Flivver* to fully record all that happened.

George Jones announces the birth of a son, Webster Jewett, on April 7. — Ros Davis announces the birth of a daughter, Anne, on May 7. — Edward D'W. Perry was married April 7 to Miss Mary Munn Shedd of New York City.

Our champion globe-trotter, H. R. Robbins, has slipped one over on us again. Not so long ago he reported starting for South Africa to take permanent residence in the Transvaal. A letter from Kalgoorlie, Western Australia, declining Crosby's invitation to the Alumni Dinner on December 16, in New York, has recently been received. We shall have to follow this chap more closely. Today we got a notice from the Alumni Office giving him a New York City address. We throw up our hands.

Your Secretary was unfortunate enough to have a blow-out on the main street of Berlin, N. H., last summer. The loud report brought a familiar

face to the office window. It was Tom Estabrook from whom we have had no news for a long time. He contributes the following: "Answering your queries, I am local Purchasing Agent for the Brown Company here and buy all the special machinery and emergency requirements for their various mills. As you could not fail to notice even on a passage through the town, the Brown Company is 'the works' here, operating a large number of plants for making wood pulp, paper and chemicals and various by-products and is a fine Company in all respects. I have been with them now about fifteen years and when I stop to think of it feel like 'the oldest inhabitant,' but do not permit myself to 'reminisce' as that is a sure sign of doddering age.

"We have a number of Tech men here and get together with other men from similar schools in the meetings of a Philotechnical Society which we are running. We also try to get down to the annual Tech reunion at the Rollins Farm at Dover at which time the Tech men from Portland and Westbrook come in with us. This is the country place of E. W. Rollins of the Bond House of that name in Boston and he certainly gives us a wonderful time every year.

"Your letter is the first personal note that I have had from Tech for a number of years and it was indeed appreciated. I wish that there could be more real friendliness among Tech men and regret that the ties which seem to bind men from Harvard, Yale and other colleges are not present to any degree with us. I understand that there is a dormitory system now in effect at the new Institute and I hope that the human side of Tech life can be helped thereby and receive the attention that it really deserves.

"My work takes me away from Berlin occasionally, but I am here for probably four-fifths of the time, and if you find your way up here again, I certainly hope that you will look me up."

Rol Prichard, Vice-President and General Manager of the Lowell Gas Light Co., has become the owner of the seventy-five-foot power yacht, *Avocet*. Mrs. Prichard and the children will spend most of the summer on the yacht at Marblehead, while the Captain will be aboard as much as he dares stay away from Lowell.

C. A. Anderson is President of The Technology Club of Philadelphia. Ten-Shun! Colonel Elliott is present. Frank accounts for the purchase of a home in Melrose Highlands by the geographical locations of his plants in Lynn and Salem and his office in Boston. He is the big man of the Perry and Elliott Co., "Complete Printing Service," a concern which has grown very fast on high-class printing. Incidentally, they printed the words you are now reading.

1905 Continued

Bill Tufts, who is with the Rheab Corporation, East Pepperell, Mass., says:

"The concern I am connected with has developed a new process for handling textile fibre which has a very wide range of uses. We bought this factory here last July and I have been here since, working along textile and mechanical lines, sort of a jack-of-all-trades and master of none. We are using this fibre now in the linen and woolen trade and there is no doubt that you will soon be wearing overcoats with our material in it. When you do, you will only have to invest about once in ten years because your coat will never wear out. (This is certainly interesting, Ed.) Of course, if you are fussy about style and all that sort of thing, you may have to buy them oftener. For the good of the business we hope you are fussy." (We are not, are we? Ed.)

Two '05 men have had important work in connection with the re-conditioning of the 950 ft., 60,000 ton steamship, *Leviathan*. Captain C. L. Simmers, c.c. U. S. N., stationed at the Boston Navy Yard, had charge of dry-docking the vessel at South Boston, while Captain R. D. Gatewood, c.c. U. S. N., of the Bureau of Construction and Repair, Washington, was Chairman of the trial board.

With regret we report the death, at Johannesburg, South Africa, of John Charles Daly.

1907

BRYANT NICHOLS, *Secretary*, 2 Rowe St., Auburndale, Mass.

HAROLD S. WILSON, *Assistant Secretary*, c/o W. H. McElwain, Manchester, N. H.

Notice has been received of the death on April 19, 1923, of Alfred L. Armsby, who lived in Millbury, Mass., and who affiliated with our class.—George H. Bryant is associated with Long, Costello Co. of Chicago in the advertising business. The concern handles the food business; in fact, this is George's own account. He also publishes a book of original poems each year (continuing the process in this direction which he exhibited when he wrote the *Tech Show libretto*) and in addition writes sentiments for greeting cards.—E. L. Chaffee has been promoted to the rank of Associate Professor in the Department of Physics at Harvard University.—Lawrence R. Davi is now with the Santa Cruz Portland Cement Co., Davenport, Calif.—Frederic⁸ B. Menner is located at 4943 Lindell Boulevard, St. Louis, Mo., Fred W. Morrill, at 5713 Valley View Avenue, Cincinnati, Ohio, and Frederic T. Moses, at Box 1366, Providence, R. I.—Art (A. K.) Tylee, who was one of the "big bugs" in the Canadian aviation service during the war, is back in Boston with George T. McLaughlin Company, contractors at 120 Fulton Street. Tylee is not married and lives with his parents in Quincy, Mass.—Remember Dutchy Vanderstucken, fellows? Here's an article concerning him clipped from the *Philadelphia Public Ledger* for May 23, and sent to the Secretary by Dick Woodbridge: "Governor Pinchot was asked last night to assist in the recovery of a valuable Mexican dog named 'Pinto,' the property of Frank Vanderstucken, a Pottstown civil engineer, son of Frank Vanderstucken, conductor of the Cincinnati Symphony Orchestra. The animal, which is valued at \$1000.00, was picked up, it is supposed, by State dog catchers who visited this section unexpectedly yesterday. Mr. Vanderstucken made a futile effort to get in touch with the State agents. Finally, he telephoned to Governor Pinchot, who is a great lover of dogs, and the Executive promised to do all in his power to find the pet.

"The Governor communicated with the Secretary of the Agricultural Department, under whose supervision the dog agents are operating, but without result."

The New Bedford (Mass.) *Mercury* states that Chester A. Vose is an aspirant for the office of Treasurer and Tax Collector of the Town of Marion, Mass.—Willis G. Waldo can be reached care of Chattanooga Trust Co., Chattanooga, Tennessee.—The Great Falls (Montana) *Tribune* of April 20, 1923, contained a cut of Albert E. Wiggin of '07, in connection with the announcement that he had been elected President of the Great Falls Rotary Club. Wiggin is General Superintendent of the Great Falls Swelter of the Anaconda Copper Mining Company.

The following is from the *Boston Herald* of June 6, 1923: "John M. Wiseman, a member of the Boston transit commission engineering staff and resident engineer for the Massachusetts board of public utilities, has died at his home, 244 Massachusetts Avenue, Arlington, after a short illness.

"He was a member of the Class of 1907 at the Massachusetts Institute of Technology and in 1909 studied at the Harvard engineering school. He studied later at Northeastern University and was admitted to the bar in 1920. He was to have received the degree of master of laws at Boston University this month.

"He leaves his mother, two sisters and three brothers. One of his brothers, Dr. Robert J. Wiseman, was formerly connected with the Electric Engineering Department at Technology, and another, the Rev. George F. Wiseman, a priest of Maryknoll, is now in Kwang Si, China."

1909

CHARLES R. MAIN, *Secretary*, 200 Devonshire St., Boston, Mass.

GEORGE A. HAYNES, *Assistant Secretary*, 186 Lincoln St., Boston, Mass.

Unfortunately owing to the date on which class notes are due (June 15) it is impossible to chronicle in the July issue the record of this year's class outing. An account of the outing will appear in the November issue. It is planned to hold the outing a little later than usual, and on June 23-24

the class will meet at Powder Point Hall, Duxbury, Mass., for the week-end. Present indications are that a dozen to fifteen men will be present.

The Secretary was glad to receive the following communication from Major Riefkohl under date of April 16, 1923: "It has been my good fortune to be detailed by the War Department as a student officer at the French Army Quartermaster School (Ecole de L'Intendance) at Paris. This detail will keep me in Paris until October, 1924. If any of the fellows happen into this gay and festive city it would give me much pleasure to renew old friendships. I can always be reached by a note addressed to me care of the Guaranty Trust Company, 3 Rue des Italiens, Paris, or my home address, obtained from the Military Attache, American Embassy, 5 Rue de Chaillot, Paris.—With best wishes to you and members of the class."

Dr. George T. Palmer has recently been appointed Director of Research for the American Child Health Association in New York. He has previously been connected with the Detroit Health Department, where, through his efforts, much good work has been done. As dean and founder of the Journal Club, a small club composed of members of the Department at which health topics of general interest are presented, he succeeded in arousing a keen appreciation of public health progress and possibilities. His publications on a variety of subjects have been widely read and commended.

1911

ORVILLE B. DENISON, *Secretary*, 63 Sidney St., Cambridge 39, Mass.

JOHN A. HERLIHY, *Assistant Secretary*, 588 Riverside Ave., Medford, Mass.

Published posthumously, an article by our beloved Dr. J. D. MacKenzie while en route from Vancouver to the soldiers' hospital near Montreal, appears in the May issue of the *Atlantic Monthly*. "The Experience of Dying" it is called and it is a veritable epic unique in subject-matter and masterful in treatment. The article was completed in the hospital, but he was not permitted to make any corrections or finishing touches before undergoing the last experience of dying, from which for him there was to be no return for living.

Permission for reprint has been granted to the Review editors by *The Atlantic Monthly* of Boston and in an early issue the article will be reproduced in full. In the meantime, if you want to spend a few moments to all intents and purposes in the halo of the exuberant philosophy and good cheer which was Mac's and only his, secure a copy of the magazine mentioned and read "The Experience of Dying." Consider the articles closing sentences: "There is no death. And yet—I do not want to die."

Now we come to the announcing of the arrival of a quintet of "junior '11-ers" to whose parents the Secretary offers hearty congratulations.—On March fourteenth the w.k. stork visited the home of Mr. and Mrs. Stanley H. Lawton in Quincy and left with them June Lawton.—While Massachusetts residents were celebrating Patriots Day on the nineteenth of April, Pete Gaillard and f.w. were receiving congratulations on the arrival of David St. Pierre Gaillard, Jr., in the Capitol City.—Eleven days later Gail DeForest made her appearance in the home of Mr. and Mrs. Norman Sperry DeForest in New York City.—When Barbara Haines came on May fourteenth to brighten another corner in the nursery of Mr. and Mrs. Tommie Haines, it was found she weighed five pounds and five ounces. Word has reached f.s. that Mr. and Mrs. Edward Sisson are rejoicing in the arrival of a new baby, but details are lacking.

Gather 'round closely now, mates, tune in on Station LCC, Baltimore, and here's what you'll hear: Mr. and Mrs. J. John Blair announce the marriage of their daughter, Treva to Mr. Lloyd Cartwright Cooley on Saturday, the twenty-eighth of April at Peoria, Illinois. Lloyd and his wife are now at home at 1312 Eutaw Place, Baltimore, the proud benedict being now associated with the U. S. Industrial Chemical Company in that Maryland city. Of course, Lloyd knows that he and his life-partner have the hearty congratulations of his classmates.

It is with the deepest regret that your Secretary reports the sudden death of the father of Ted Van Tassel on April 12. Here is a paragraph from the *Boston Transcript* of April 13:

"Edward D. Van Tassel, long identified with the leather trade, died suddenly during the night at his home, 390 Newtonville Avenue, Newtonville. He had spent last evening with his family as usual and was apparently in good health. He was sixty-eight years of age and was head of the Van Tassel Tanning Company, whose factories are in Stoneham, and the Boston office in South Street, where it has been located for thirty-five years."

Oberlin S. Clark, II, reports that he is "now the front half of a new firm (Clark and Smith, General Contractors, Quincy, Mass.) and business is driving me hard."—Down in Revere, Mass., Carl G. Richmond, I, is now associated with Arthur H. Curtis, '10, the pair having organized the Revere Ice and Fuel Company.

The following clipping from the Lowell (Mass.) *Sun* under date of May 10 is of particular interest to '11-ers, relating as it does the activities of Ralph Runels, I, and his brother, Chester M. Runels, '15: "Although somewhat new in the local contracting field the Runels Construction Co. has firmly established itself upon actual performances. Its officers are Ralph E. and Chester M. Runels, brothers and Lowell boys, well known in the city. Both are Technology graduates and engineers of ability and tackle any sort of a job with so much vim that its success is assured at the very start.

"One of the outstanding accomplishments of the company was the reconstruction of the canal bridge in Central Street for the Locks and Canals Corp., a job that required feverish haste, but unerring accuracy and the fact that it was 'put over' without a hitch, speaks well for the ability of the Runels boys.

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Boston, Massachusetts

1911 Continued

"The Runels Co. is equipped to take any kind of an engineering construction job, power plants, bridges, dams, mill work or private buildings. One of the best examples of the work this company does is seen in the new golf building at the Vesper Country Club, of beautiful and sturdy construction and indeed a credit to the company.

"The company's office is in the Hildreth building and its plant is located in West Adams Street.

"The Lowell Contractors' association was quick to realize the ability of the Runels boys and prevailed upon Chester Runels to take the Presidency, which he now holds. In this position he has worked tremendously hard in connection with the Home Beautiful Exposition and his fellow-members are only too glad to give him unstinted praise for his efforts."

Another announcement of the formation of a new organization by an '11-er was received from Albert O. Wilson, I, last May:

"It is with pleasure I inform you that I have organized a new company, the A. O. Wilson Structural Co., having severed my relations with the A. L. Smith Iron Works of Chelsea, Mass., of which firm I was a member and for many years Chief Engineer.

"We have built a modern shop, with up-to-date machinery, situated on a railroad siding.

"Our organization includes some of the best men in the structural steel and ornamental iron business, and I feel that we are in a position to assure you prompt attention, and good service.

"It is our desire to so cooperate and serve that we may deserve your fullest confidence.—A. O. Wilson.

"A. O. Wilson Structural Co., Concord Avenue & Smith Place, Cambridge, Mass., May 1923."

Looks as though the 1911 Civil Engineers were at present in the midst of a splendidly prosperous period.

Under the caption "Mid-Week Book Notes" in the *Boston Herald* of May 30, John Clair Minot said:

"Number seven in the series of Good-speeds monographs, which Lewis A. Holman has been editing in the past year or two, is 'John Taylor Arms, Aquatinter.' Mr. Taylor, who was graduated from Technology in 1911, first practised architecture in New York with etching as only a side issue and hobby, but lately he has taken up graphic art as his profession. The monograph contains a list of Mr. Arms's work and reproductions of twelve of his aquatints."

Most impressive was the Inauguration of President Stratton in Symphony Hall, Boston, on the morning of June eleven. (Secretary's note: Of course Dr. Stratton will succeed with such a wonderful start as being inaugurated on the ELEVENTH). Elevener's attending included Royal Barton, Tommie

Haines, Jack Herlihy, Fat Merrill, Emmons Whitcomb, Chet Morey and Dennie, the latter pair being accompanied by their respective wives.

Doubtless by this time a lot of you readers are wondering why it is that the Twelve-Year get-together, planned for June 8-11, inclusive, has not been chronicled. The reason is altogether obvious when it is recorded that Jack and Dennie had to call it: "No Game—Lack of Interest." Yessir, only two couples and three men indicated their anticipated attendance, so J. and D. came to the conclusion that it is better to concentrate on big reunions about every five years, instead of attempting smaller ones during other years.

Here is a letter from Pittsburgh, written by I. W. (Bun) Wilson, XIV: "The sun is shining, spring is here, I can pay my dues and still have money in my pocket—why shouldn't the world look rosy! While I am decidedly for a 1911 get-together, I am afraid there is very little possibility of my being able to be there. Between much work and frequent business trips (none in the Boston neighborhood) my time is completely and continuously filled. I wish that when any 1911'ers are in Pittsburgh, they would look in on me—2400 Oliver Building."

Here is Ed Woodward's contribution from Brooklyn: "Am afraid I have nothing new to report except that I live in the town noted for churches, baby carriages and rubber plants. Have a boy three years of age, whom I should hate to send any where but to Tech, and a girl one and a half years of age, who already has started to pull her old man's leg."

Alec Vereance, I, who has been in the Industrial Bureau of The Merchants' Association of New York for about a year now, says: "It is very entertaining—in the daytime—but at night when I am explaining why I only made a dollar that day, it's not so entertaining."

Erving M. Young, I, writes from Buffalo: "Just read a late issue of the Review and realized it was time I said a word, and 'Wrote to Dennie!' Am Superintendent for Deslauriers Column Mould Co. of New York on the erection of 330,000 square feet of floor and roof, with 355 columns on the new Chevrolet Motor Co. plant here in Buffalo. It is a rush job and our winter here has been rather severe, but we are just finishing up and in good shape. Have been singing second bass on the Tech Club Male Quartette of Rochester since last August, and last Saturday our quartette sang at a luncheon given to Dr. Stratton at the Rochester Club. Best regards to the fellows. May get to Boston for a day or so soon."

R. E. Zimmerman, IX, writes from Pittsburgh: "I certainly regret that I shall be unable to be present with the fellows at the Twelfth-Year Reunion, June 8 to 11, the reason this time being that I am responsible for a Fifteen-Year Reunion of my class at Franklin and Marshall College on June 11 and 12. This is one of the penalties a fellow pays for belonging to two institutions,

1911 Continued

but it is up to me, as President of my class at College, to see that the Reunion is properly handled this year. The Technology Alumni of Pittsburgh had a very successful get-together and dinner at the University Club last Friday night in honor of Dr. Stratton's visit. I. W. Wilson and myself helped to concentrate the 1911'ers at one table."

Elsewhere in this issue you doubtless have read of the new position to which your Secretary has been elected and which will probably be assumed in July or August. So in the fall when you "Write to Dennie," letters should be addressed care of Massachusetts Institute of Technology, than which there is no thanwhicher!

1912

F. J. SHEPARD, JR., Secretary, 568 E. First St., Boston, Mass.

As the last letter of the year goes to press, those of us who were fortunate enough to attend the Reunion at Plymouth last year are wishing that we could all be again at the Mayflower Inn for another get-together.

It is none too soon now to make the resolve that you will be with the class for their Fifteenth Reunion in 1927. Make a resolve that you will save at least a week in June for this occasion, as we want to have at least 100 men back at that time.

Your Secretary is pleased to announce the arrival of Phyllis Anne Fox, who arrived at the home of Rudolph H. Fox, in March. Fox is now with the Vulcan Iron Works Co., in Denver, manufacturing mine hoists, mining equipment in general, and, as he says, anything else that comes their way.

Zip Bent, of Tucumcari, Mexico, was in Denver over the Christmas holidays, and Fox reports he is looking as hale and hearty as ever. The New Mexico climate is highly recommended.

Bert Calvin, VI, is now sales agent for the United States Fuel Company, located at Salt Lake City.

Clarence Morrow, IV, has left Merrill Oldham, to become head of the Public Utility Division of the Guaranty Company of New York, located at 140 Broadway. Morrill has apparently forsaken the engineering field for that of finance, with great success. We are certainly sorry to see him leave Boston, but know that New York contingent, including Dave McGrath, will be glad to have him with them.

Among the members elected for the National Academy of Science for 1923, we find Max Mason, VI.

Dr. J. E. Rush, VII, was one of the speakers at the American College of Surgeons' Meeting, held at Worcester, May 15 and 16. Rush is Field Director of the American Society of Control of Cancer, with headquarters in New York, and speaks about the country on this work.

The following, taken from the *Athol Press*, gives a short account of George Richards, I, who passed away in December: The community was shocked Tuesday, December 5, to learn of the sudden and untimely death at 1.55 o'clock that morning in the Homeopathic Hospital in Pittsburgh, Pa., of George William Richards, 33, oldest son of Selectman and Mrs. William T. Richards. Death was the result of an operation for appendicitis, he having been ill but three days. His mother was called to Pittsburgh, Sunday night, and was with him when he passed away.

"George Richards was born in Erving on August 14, 1889. He was educated in the local schools and was graduated from the Athol High School in the Class of 1907. In the fall of 1908, he entered the Massachusetts Institute of Technology from which he was graduated in 1912 with the degree of bachelor of science in civil engineering. Immediately after graduation he went to Harrisburg, Pa., and entered the active practice of his chosen profession by joining the Pennsylvania Steel Company at Steelton, Pa., on July 1, 1912. On September 1, 1915, he left the Pennsylvania Company and went to Cleveland, Ohio, where he accepted a position with the New York Central Railroad Company in its bridge engineering department. He was here a short time only, when the opportunity he had been waiting for came, and he moved to Pittsburgh, Pa., May 1, 1916, to accept a position in the erection department of the American Bridge Company. He specialized on mechanical lift bridges, and was sent all over the country to superintend their erection. It was while in this work that he developed several radically different methods for bridge erection, most of which have now been adopted as standard practices. In May, 1921, Mr. Richards was transferred to the foreign erection department as a superintendent of construction. He was planning to leave the first of the year for Columbia, South America, to erect a bridge some 500 miles inland.

"Mr. Richards was a member of Theta Chi Fraternity, serving as Treasurer one year. He was also a member of the Engineers' Society of Pennsylvania, and an associate member of the American Society of Civil Engineers. He was unmarried and is survived by his parents and one brother, Leon Richards of Erving. He was a man of the best habits, brilliant in his line of work and ambitious. His bereaved family has the heartfelt sympathy of a host of friends throughout the section. The body was brought to Erving and the funeral was held yesterday afternoon at 1.30 o'clock in the Congregational Church, Rev. D. L. Hilliard of Belchertown, officiating, assisted by Rev. Mr. White. Burial was in the Erving cemetery and the following were bearers: Cuthbert Johnson, Clarence H. Clark, Harold Rand and E. Willis Whited."

The following, from Arch M. Eicher, XI, on the letterhead of J. E. A. Moore, American Society of Civil Engineers, A. M. Eicher, Associate, Euclid Building, Cleveland, Ohio, is self-explanatory: "I do not know how you figure, as you say in your letter 'let me know if you don't receive this.' Anyhow, we understand each other. My good friend Carl Rowley has a great time, not only keeping tabs on all of his friends, but helping them to keep their tabs straight. The address you have for me should be 702-1900 Euclid Bldg. You don't need to put me in care of anybody.

"You surely deserve a lot of credit for the way you keep plugging to get some class news, and while I have little to contribute, surely you are entitled to that. Since last July, I have been in Shreveport, La., on the erection of an oil refinery. It was my first experience in that climate during the winter and I must say I prefer the breezes from Lake Erie. There is a great fascination for me in that country with the darkies, cotton, figs, pecans and so many things that we do not have. Their methods of doing business are not so enthusiastic and it really is a great opportunity for a Northerner to go there where there are so many undeveloped resources.

"I have no news for the fellows unless they want to know I am further than ever removed from marriage.

"I have not been in the East for a year and surely would enjoy seeing some of you there. It would be a great treat if any of you should come this way to meet you here and this sort of a call has the right of way over everything. Kindly give my best regards to any of our mutual friends you may meet and best of everything for you."

Albion R. Davis, II, is now with the Walworth Mfg. Co., South Boston, living at 1423 Commonwealth Avenue, Allston, Mass.—The Secretary had a pleasant visit with Ran Cremer two weeks ago. Ran is with Frederick Snare Corporation, headquarters in New York, and is at present installing foundation and concrete work for the new Brooklyn Edison Power Station, near the Brooklyn Navy Yard.

Dave McGrath, with his usual energy, held an impromptu salary poll at the last 1912 Dinner in New York. His story follows: "Somebody suggested taking a poll of the fellows' salaries, at the April meeting of the New York bunch. Out of fourteen men reporting, we showed an average of \$4200 even. Based on 300 working days a year, that's just \$14.00 per diem. On the whole, that looked pretty good, and we were rather proud of our progress in the financial sense, until we picked up the *New York Times* a day or two later and lamped this knock-out — 'Wanted, experienced bricklayers, \$16.00 per day and overtime.' Then our pipe went out.

"Well, anyhow, we had a good time at Tech while it lasted, and probably our alumni dues aren't as high as those in the Bricklayer's Local.

"We wonder how our average of \$4200 compares with the rest of the class. Is it representative or not? The highest of the fourteen men reported \$6000. There were two at \$5200, and most of the rest ran from three to four thousand.

"This meeting, a noon luncheon at the Tech Club, April 18, was the largest turnout we've yet had. It is extremely gratifying to have the fellows show up the way they do, when business and so many other demands on their time make it difficult. Those present were: E. T. Marceau, X, H. H. Brackett, VI, W. A. Rhodes, VI, L. W. Cooper, VI, J. A. Cook, VI, J. A. Appelquest, VI, J. C. Freemann, VI, A. W. Yereance, I, P. R. Williamson, C. H. Harrington, I, F. W. Parker, X, R. J. Wiseman, VI, W. H. Lange, I, N. A. Hall, VI, and D. J. McGrath, I.

"In May, we're going to try an evening meeting — supper at the Tech Club, Thursday, May 17, at 6.30 p.m. — Price \$1.00, no extras. Party over at 7.45 p.m., leaving ample time to meet your wife, or anybody else's, in time for a show."

Carl Rowley, II, formed partnership with P. L. Small, Course IV, 1915, some time ago, and is engaged in designing and writing specifications for everything from a chicken coop to a hotel. Carl is a versatile fellow, as he is still able to rate as Chief Engineer for the American Fork and Hoe Co.

We are indebted to E. A. Tomlinson for the following: "Last night, I read the last issue of the Technology Review, and noticed your appeal for more information regarding 1912 men.

"L. M. Sandston, Course I, was at the Railway Show at the Coliseum, Chicago, the middle of March, representing the Culvert & Flume Department of The American Rolling Mill Co., Middletown, Ohio. His booth was diagonally across the hall from the Portland Cement Association booth and thus I saw quite a little of him. You may remember that Sandy came from New Zealand to enter Tech. After graduation, he was in various parts of the United States for a few years. Some time in 1916 he married a Pittsburgh girl and took her to New Zealand for a honeymoon. He stayed in New Zealand until a year or two ago, when he brought his wife and daughter back to the United States and settled in Ohio. Sandy looks healthy and prosperous and is very proud of his family.

"The last of March I left Chicago for a three weeks' trip to Texas, stopping at Nashville while en route South. There I met G. B. Howard, Course I, who is a prosperous contractor there. That day I gave a short talk on 'Cement and Concrete' at luncheon meeting of the Engineering Association of Nashville, of which Jerry Howard is a member. After luncheon he took me for quite a drive around Nashville, and showed me a large apartment house and a two-mile concrete road job on which he is working now. I saw big wagons labeled 'G. B. Howard & Co.' all over the city of Nashville, so that I judge he is giving his competitors a hard run for their money.

"For a little over three years, I have been with the Portland Cement Association, — for the last fifteen months on their railroad work. My job is to promote railway uses of concrete and in order to sell the idea of using concrete to railroad officials, considerable traveling is necessary. Thus I get pretty well over the United States, and keep my eyes open for 1912 men, but it is only occasionally that I see them.

"Early in November, I was in Boston for a few days, and hoped to call at your office, but unfortunately business engagements prevented."

Don Radford, II, states that he is sharing in the prosperity brought about by the present building boom. His output is interior finish, including sash and door work under name of "Radford & Wright Co.," Duluth, Minn.

1913

F. D. MURDOCK, *Secretary*, 230 Chandler St., Buffalo, N. Y.C. CHARLES THOMPSON, *Assistant Secretary*, 120 Milk St., Boston, Mass.

It is too bad that the copy for the July Review goes to press three hours before our Big Reunion begins. However, at this moment, things look prosperous for a full attendance of seventy-five men at the Quechesset Inn at Wellfleet on Cape Cod. In the very next issue of the Review, which I believe is the November one, you will have a full report of what goes on.

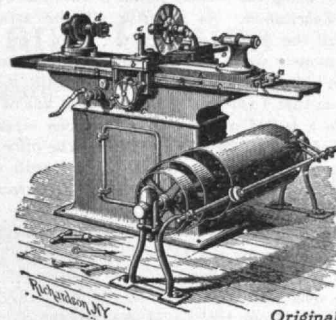
We can't do better than to start with some news of that great old war horse, Lammie. He states that Mrs. Lassie presented him with a bonnie daughter on February 2, and that mother and child are getting along very well. Lammie is now delighted to have both a daughter and son in the family. He is still handling Tank-Type tractors in Victoria, his firm being the leading agricultural concern in Victoria. He is hoping for a trip soon to the States.

From the *Boston Transcript* we learn that Tenney Davis is engaged to Miss Dorothy Munch of Arlington.—On April 2, Donald M. Giles was married to Miss Meta Foy at Jenkintown, Pa.—On April 30, 1923, John R. Hopkins appeared on the scene. He is a second child of C. H. Hopkins, IV.—On April 28 this year, C. P. Wetherbee, VI, took for himself a bride in the person of Miss Irene Cuthbert of Ardmore, Pa.—S. H. Taylor married Miss Celia M. Brainerd on the 22nd of April.—From the *Boston Transcript* we get the news that Dr. Donald P. Armstrong, Executive Officer of the National Health Council of New York, gave an address in March on the subject of the importance of health as an ally of industry.—Ralph L. Thomas, VI, is now Assistant to the General Superintendent of the Pennsylvania Water and Power Co., Baltimore.—Edwin Gere, I, is still in the Army and is just now Construction Q. M. of U. S. Veterans' Bureau Hospital at American Lake, Washington.—John L. Kerr, VI, is a Commercial Engineer in the Steam Turbine department of the General Electric Co.—George Rechter, V, promises to be on hand for the Reunion. He is allured partly by the proximity of Wellfleet to the three-mile limit.—G. R. Alden, X, notes: "Have been with the Dennison Mfg. Co. for two years now and hope that I may have the pleasure of staying for some time to come. It's certainly a most wonderful organization. Have recently been given charge of their Research and Chemical Testing Laboratories, which involves enough work to keep me from worrying about my other troubles. Am going to try and tear myself away for the Reunion in June if possible."—M. J. Smith, VI, has taken up his residence in Rochester, N. Y., and is selling Life and Business Insurance.—Hap Peck, II, goes merrily on in his Patent Law Practice.—C. W. Brown, XIV, notes: "Have given up trying to save money for the Brooklyn Edison Co., as they do not seem to want to save any. I am now about to start fixing up a few loose ends at the Keystone Screw Co., of Yardley, Pa., such as piece rates, process and tool refinement, etc. The change of work accounts for my inability to be present in June."—Charlie Edison, IX, admits that he is official doormat for Thomas A. Edison Industries which, translated, probably means that he stands pretty well in the brilliant organization created by his father.—A. E. Bellis, V, is very busy installing Bellis Lavite heat-treating process in every shop in U. S., Canada, Great Britain, France, etc.—Elliott Gage, XI, is conducting field investigations of malaria with the U. S. Public Health Service. He notes: "Doubt if I can make the Tenth Reunion. Expect to be in the Piedmont district of North Carolina chasing mosquitoes around the reservoirs of water-power developments. Unfortunately, the reunion comes just at the time of greatest field activity on this work. Can, however, promise to be able to copiously (damn those infinitives) drink the health of '13 at the proper time and in the (formerly) proper manner."—Charles Walton writes: "It sure do beat heck how tempus do fugit. I've been flitting from flower to flower and weed to weed and finally came to California, where I found orchids. Speaking of orchids, Charles Walter, III, arrived August 28, 1922, 9½ lbs. of Native Son—out here that's as good as a Shriner. Will you see if my name is on the alumni list, as I haven't had a peep from them in ages?"—I heard through local business associates of Ross Sampson, III, that Ross is delivering the goods for the Lumen Bearing Co. at their Chicago Office.—Walter Bylund, II, has been in business for himself for two years. The name of his Company is Bylund Bros., Inc., Manufacturers' Representatives, Woolworth Building, New York City.

Norman Clark, X, writes: "About three weeks ago, there was staged an impromptu reunion of 1913 in 'Brown's Shop House' on Broadway, consisting of George Richter, Alden and myself. We're all in the paper game. George makes the kraft, I run it up and Alden makes seals out of it for milady's candy box. Since last writing you, I've left the winds of Nashua to sojourn in the wilder wolds of Northbridge, Mass., as Assistant Superintendent of Kuper Bros., coating plant. Then I returned to my first love—Holyoke, as Assistant Manager and Color Man of Whitmore Mfg. Co. (where we made the playing cards certain '13 men use so well). But realizing such labors were too mercenary, and little to lead youths astray, I left to become Superintendent of Holyoke Paper Products Co. If I don't see you before, I'll see you June 15."

Ben Thomas, VI, is still with the United Railways of St. Louis. He notes: "Street Railway business is very interesting, but not so lucrative. There are many problems that have to be solved before the present companies are out of their difficulties. But there is a ray of sunshine through the clouds every now and then that shows that the end is approaching."—The White Construction Co. of Boston, Mass., is presided over by Ben White, I.—Earl Caldwell, X, will interrupt his occupation as casket manufacturer for a few days to be with us at the Reunion.

Allen Brewer, III, notes: "The above looks like a big mouthful for even



1876

Original Universal
Grinding Machine
designed by J. R. Brown

The Origin of Cylindrical Grinding

SEVENTY-TWO years ago, in 1851, mechanics knew that a hardened shaft would outwear a soft one. Yet the hardening process distorted shafts enough to make them useless; and straightening was not a satisfactory method of remedying the distortions.

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The unknown discoverer of grinding used an iron wheel having a lead rim charged with emery. This wheel, driven by an overhead belt, was mounted on the tool post of a lathe.

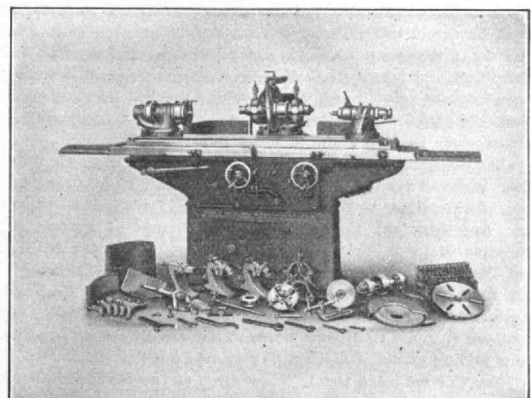
As early as 1864 Brown & Sharpe were building grinding machines of the lathe type. In 1868, Joseph R. Brown designed the Universal Grinding Machine which appeared at the Centennial Exposition in 1876.

From these beginnings the Brown & Sharpe line has grown to include 18 sizes of grinding machines—Universal, Plain, Crankshaft, Surface, Tool and Cutter. These high-grade machines are noted for their accuracy and capacity for producing work of the highest quality.

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1923 Brown & Sharpe No. 3 Universal Grinding Machine. Centres take work to 12" in diameter, 40" in length.



1913 Continued

a Course III roughneck's life work, so here's to explain. You see, I'm sort of a half-rate editor, now, being the literary power behind the Texas Company's famous publication *Lubrication*. As I write all the articles, I have to cover mighty nearly all the fields of engineering. Also, I get a smattering of sales work or rather pioneer work now and then. So you see my life work (until I get fired) 'ain't the biggest thing' after all. Still, it's an interesting line and I am getting so that I am able to throw a neat line of Bull, in a lady-like manner. Also do a lot of writing for the various magazines still, and have even appeared in *Literary Digest*. Got to make the price of shoes for the kid, you know. Passed through Hartford about a month ago and visited Ken Blake at the Cheney Bros. mill. Ken's bubbling over with reunion. Why shouldn't he be? He's getting a house to live in at pre-war rent prices. Also saw Kirk Macfarlin, XIV, on Broad Street yesterday, looking like a bond-holder. Expect to make my second fatal leap in life in a few days, when I sign a contract to build a house here in West Orange, N. J. My days of roaming, I figure, are over, since I can make the most money around little old New York at present. Hope to be able to make the reunion unless anything unforeseen occurs."

At last Joe Strahan has broken his long silence to tell us that—"Since leaving the Navy in 1919 I have been with the General Chemical Co. Last Thanksgiving I was transferred from General Superintendent of Construction back to Hudson River Works at Edgewater, N. J. (third in size out of some dozen or fifteen manufacturing plants), this time as skipper instead of executive officer of the craft. The work is a 24-hour-a-day; 365-day a year proposition; we have been hanging up a few production records these past five months with only about 300 men (instead of our 500 when the 1920 'bubble' burst). So far, I find it (within limits, of course) greatly to my advantage to be 'practically unhampered by any prior knowledge of the art' of heavy chemical manufacture—a splendid business, by the way, for a Course I graduate! You see, I don't know all the things that aren't done and which have been somewhat cramping to the style of my predecessors! Two '03 men are active in the Company's executive ranks. Ten Fowler, II, as Manager of Manufacturing and Lowry Gillett, X, as Manager of Construction. Just a year ago, I bought my home in Ridgewood about eighteen or twenty miles from the Works, which meant nothing particular to me then. But since I've been driving it twice a day at least (over 1,000 miles a month) in the old open Buick, during this very snowy winter—well! I suppose it keeps one hardened, if one doesn't immediately succumb. Of course, though, Admiral Peary was also a distinguished member of the Corps of Civil Engineers, U. S. Navy! Three ruffles and a couple of flourishes! Here's to all hands—see you in June."

F. H. Achard, VI, writes: "I started in with Westinghouse Electric again, but on this new tack in an effort to locate the ready in more tangible form than straight engineering work locates it. Seriously, I am in the industrial field covering the Berkshires and the territory adjacent to the Westfield River in Massachusetts. This means selling anything from a roll of tape to a turbine and I bid fair to do both if they let me live long enough. I like the game principally on account of the multiplicity of conditions encountered. Am always home week-ends, which helps, and am not away for more than a couple of days at a time, which also helps. I have attended a couple of the dinners in Boston and have been mighty glad to see the boys. As far as accomplishment is concerned, my boy is the biggest thing that has happened to me, and he is some boy. My best to all the crowd. I hope to see some of you at the reunion."

E. N. Taylor, XIV, has charge of both manufacturing and engineering for the Ever-Tyte Piston Ring Co. of St. Louis. Ed is very optimistic over the future of his concern with its excellent product.—George Starr, I, wants to be in Erie, Pa., but no more "Fessup," Twinkl!

H. P. Fessenden, I, is with Stone & Webster. He notes: "Just at present our firm is in the midst of the greatest amount of engineering and construction work that they have ever known. According to the last issue of *Power* they have contracts for \$35,000,000.00 for power stations alone and an equal sum is being expended on hydro-electric and industrial building. I'll say it's some busy. In all the hustle and worry I'm trying my best to hold up my end of the engineering end of the transmission systems and sub-stations for the central power stations which are being developed. Just now there are being constructed approximately 150 miles of high tension steel tower lines with terminal sub-stations and distribution systems to go with them at a total cost of approximately \$2,500,000.00. There are several other large developments in the wind and it looks as though I had my work cut out for some months to come. However, I have a definite promise that I can get away for the tenth reunion if not for longer, so weather and health permitting I'll be at Wellfleet and take it from one who has been there, it is some place. P. S. If you know of any '13 men who have had transmission line experience and they are not satisfied with their present location, I think that it would be worth their while to drop a line to Stone & Webster."

Golf takes the place of baseball now as a hobby for Ken Hamilton, II. It looks like "signs of age," Ken.—A. E. Hirst notes: "Hope to get up early enough June 16 to go down to Wellfleet over the road from Fall River, weather permitting. Are there any Course V men still living? I haven't heard a word from some of them for years. For instance, where are Bellis, Jerry Lane, Ferd Pendleton, Si Champlin the Jam King, E. E. Corbett? Hope they'll keep in mind that my place is the American Printing Co., and that it is right alongside the Fall River Line dock, where undoubtedly some of the '13 men land en route from New York. They are always welcome to drop in and see a million yards of cloth a day turned out."

From John Coe we learn that: "Have been at the General Laboratories

of the U. S. Rubber for ten years and probably shall continue for a while at least. We have no titles at the labs but I look after the work mostly. Just now I am in Kansas taking a little vacation from strenuous labors and am cutting to pieces and losing many U. S. Royal 30 x golf balls. The fault is not with the balls. Being about 1500 miles from Boston, I can't arrange to run over for the reunion and that's my chief regret at present. Regards to everybody."

"Practising architecture in California" is the lot of W. F. Herbert, IV.—Ira W. Knight, VI, notes: "Am doing development work, setting up experimental equipment and doing miscellaneous research work. Same job I have been at for several years now. I have tried to get to some of the class meetings this spring, but couldn't seem to make it. I'm now apt to be down New York way than Boston. Here's hoping the whole seventy-five will make it next month and that the weather will be merciful."—Bill Horsch, XIV, is enjoying very much his work in New York for Guggenheim Brothers. He sees occasionally Joe Merrill, Lee Parsons and Leathers.

Clinton E. Pearce, II, addresses this note to the bunch: "I get my vacation in August, so will not be with you for the big time, but I wish I could be just the same. My job is now Professor of Machine Design, and my duties consist of teaching that subject to a class of seventeen senior Mechanical Engineers; also Kinematics, or rather Mechanism, (a la Schwamb and Merrill) to classes of sophomores that total about 110, — with assistance, of course; and general supervision of Freshman and Sophomore Drawing and Descriptive Geometry, with four assistants and a total enrollment this year of about 800. So you will see for a 'Cow College' of a total around 2800 our Engineering Division does fairly well! (Is that enough about work?) My boys are all girls—aged four and one-half, and one-half respectively. Too bad I can't play trains or build machines for them. If you want any more dope, or a description of the state, school, politics, weather, or the death of my yachting hobby, please let me know."

Pa Ready says: "We have a little plant in Cambridge and so far have not starved to death, but maybe yet. Looks like a big time in June, and maybe we can open a bottle (my pen is weeping). You know I am a damn poor letter writer, but my grip is still good, and hope to show you how good at the reunion."—Gil Pardey, VI, for the past two years, has been selling for the Westinghouse Co., out of the Boston Office.—George Taylor, II, has gone into business with his father and brother in Lawrence, Mass. They make doors, sashes, etc.—Fred Kennedy, IV, sums it all up in these few words: "Married—got a dog, a garden, a house built for ourselves, and have just opened an office, with a good start toward a practice."—Arthur Clark, V, is supporting his wife and three boys as an industrial engineer with the U. S. Rubber Co. in their Central Planning Department at New Haven.—David Stern, V, has been making cans since he left the Institute. He notes: "I would be tickled foolish if Hoornbech, Pendleton, Hoyt, Lane and Hirst would get in touch with me. They are all thirteens. See what you can do about it. Thanks."

Bob Leshner writes: "I've just undertaken to study the inland waterways of the country for the Chamber of Commerce of the United States in Washington, D. C. The jump to Wellfleet is just a little too great for me during June. Mention of the Cape seems like mentioning home, especially after a two-year study of the Cape Cod Canal, the traffic, fog, and wrecks around the old Sandy Hook. My mind wanders back to good old State days more often than I'm inclined to tell and a tenth reunion is a thing hard to miss. If my work takes me to Boston, I'll be in Provincetown. If it doesn't, I'll be there in spirit and thought. Luck to you all."

1914

H. B. RICHMOND, *Secretary*, 62 Tufts St., Arlington, Mass.

G. K. PERLEY, *Assistant Secretary*, 45 Hill Side Terrace, Belmont, Mass.

Nine Candles! How they do skip by. And next year is our first grand reunion. When? Where? And how? June, on the coast between M. I. T. and the Statue of Liberty, and, and—Stag. Whew! That is some load to unburden to the loyal wives of Fourteeners. Your secretaries and the preliminary reunion committee have given the matter much thought and attention. June is the reunion season; the center of gravity is near New York; but shouldn't we bring our wives too? At first the answer seemed surely yes, but as the matter was given further thought, No predominated. Our outing this month had much to do with the decision. Here the ladies were invited, we all wanted them to come and we had a fine time too. But—several Fourteeners who otherwise would have come, could not do so, because arrangements could not be made to leave their children; others felt that a double expense, plus the necessity of paying some one to stay with the children, was more than they cared to pay. These considerations would be even more complex at a three-day event, and they were the final factors that made your secretaries decide on a stag party next year. We hope that we have chosen wisely.

There will be Grand Technology Reunions from time to time. These events are always for the whole family. It is hoped that every loyal Fourteener will take advantage of these reunions and bring his family along. Friend wife will then not object to a decennial stag party.

While we are talking about reunions and wives, let us tell about our ninth year party held June ninth. This was a "ladies night." We met at the Walker Memorial in the afternoon and motored to the Walpole (Mass.), Inn, and right here let it be said that Fourteeners must be a prosperous lot, because only one open car appeared, and so many cars were available that extra seats went begging. After a jollification and acquaintance half hour

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1914 Continued

we sat down to a fried-chicken-strawberry-shortcake dinner. This was a progressive affair in that tables were changed between each course, and each lady had a cigarette.

After dinner we adjourned to a large living room, formed a semi-circle around the log fire and enjoyed games. Dancing followed, then a motor trip back to Boston. This reunion was arranged by the Assistant Secretary, and he did a good job. Those attending were: C. A. Corney and wife, F. S. Somerly and wife, J. A. Judge, F. C. Atwood and wife, W. H. Warren and wife, E. C. Crocker and wife, H. H. Ambler and wife, W. G. Hauser, C. W. Ricker and wife, F. L. Ahern and wife, G. C. Derry and wife, G. K. Perley and wife, H. B. Richmond were on hand to represent Fourteen.

On April 18 the Alumni Association staged a smoker at the Walker Memorial. Boxing, fencing, stunts, and a good time in general were part of the program. Price, Osborne, Corney, Houston, Harper, Chase, Swift, and Richmond were on hand to represent Fourteen.

Three Boston monthly luncheons have been held since the last notes were written. At the April luncheon we enjoyed a very interesting talk on Banking by Art Stubbs. Those attending these luncheons were: H. S. Wilkins, C. H. Wilkins, Ahern, Crocker, Harper, Chase, Atwood, Stubbs, Hardy, Fay, Perley, Hughes, Osborne, Derry, Storke, Adams, Blakeley, Ambler, and Richmond.

A number of items of family interest have been received recently. The first concerns our old friend How Taylor, IV. The good news reads as follows: "Mr. and Mrs. Harry Wills Brainerd announce the marriage of their daughter, Celia Margaret, to Mr. Seymour Howell Taylor, on Sunday, the twenty-second of April, One thousand nine hundred and twenty-three."

All of the other social items are applications for the junior auxiliary. They are: a daughter to A. J. Hahn on February 7; a son, Philip Winthrop, to Art Stubbs on May 26; a daughter, Cynthia, to G. C. Derry on March 14; a daughter, Ruth Polhemus, to C. P. Ross also on March 14; and a daughter, Nancy Randall, to Dick Favorite. It looks as if women suffrage would never have to worry.

An unusual number of new business connections have been reported recently. A. W. Johnson started on the first of May as Production Engineer for the Shawmut Paper Box Co. of Cambridge, Mass.—W. H. Warren has joined the Phillips Wire Co. organization of Pawtucket, R. I.—L. M. Richardson is now associated with the Morton C. Tuttle Co. of Boston as Vice-President and Manager of Construction.—On the first of June, Les Snow transferred to the Chase Securities Corporation of New York City.—S. W. Stanyan has gone to Mansfield, Ohio, in the production department of the Ohio Brass Co.—Henry Chandler is now Metallurgical Engineer with the Vanadium Corporation at Detroit.—George B. Ott has joined the Standard Oil organization

and is in Shanghai, China.—The Stone & Webster Engineering Division have claimed A. V. Swift.—E. L. Osborne has joined the staff of James W. Eadie of Boston, and is specializing on Department Store Accounting Systems.

V. M. F. Tallman, who is with the Charles H. Tenney Co. of Boston, is Vice-Chairman of the Power Sales Bureau of the National Electric Light Association. He has been in charge of enrollment for the industrial electric heating courses given for central-station sales engineers.—Ralph Goeth, who has been connected with the Tips Organization for several years, has been advanced to President and General Manager of the Tips Engine Works.—Maynard Griffith, Chief Officer of the S.S. President Jackson, is still sailing the briny deep. He has been to the Orient stopping at Hong Kong, Manila, etc.—C. F. Ruoff, Captain in the Sixth Field Artillery, has been transferred to Fort Hoyle, Edgewood, Maryland.—A. H. Waitt, a Captain in the Chemical Warfare Service, is at the Arsenal at Edgewood.—H. S. Wilkins has been active in M. I. T. athletic affairs ever since graduation. He was recently elected Vice-President of the M. I. T. Varsity Club.—An announcement of his appointment as Vice-President of Pultz, Inc., a corporation with headquarters at Boston and engaged in a general construction business, has recently been received from Arnold Chandler.—W. A. Snow, of Sandquist & Snow, at Miami, Florida, reports that the construction business is brisk in that territory. Just now, Snow is trying to convince the "powers that be" that they should make an appropriation for a 476-foot reinforced highway bridge he has just prepared plans for.—The *Boston Evening Globe*, of March 31, contained a long article on the appointment of Walter Monahan as European Publicity Manager for the Red Star Line. Monahan will have his headquarters in Antwerp.—Phil Russell is another who has forsaken engineering. He is with the First National Corporation at Chicago and is engaged in the banking business.—C. G. Maier joined the U. S. Bureau of Mines and is stationed at Salt Lake City.—Deac Barns, of the staff of Nicholas S. Hill of New York, is still spending his time traveling from Florida to Wisconsin on engineering projects.

No more Reviews until November! Better spend the time planning to attend the grand reunion next June.

1915

FRANK P. SCULLY, Secretary, 118 First St., Cambridge, Mass.

HOWARD C. THOMAS, Assistant Secretary, 100 Floral St.,
Newton Highlands, Mass.

No notes received from the Secretary.

1916

D. W. BARKER, *Secretary*, 14 Marathon St., Arlington, Mass.

WILLIAM W. DRUMMEY, *Assistant Secretary*, 533 Washington St.,
Dorchester, Mass.

Will some of you '16-ers, who have received the questionnaire, please send in your replies at once? To make this directory a success, we want to hear from as many as possible.

From the replies received so far, we can give you the following news:

In his travels around northern New England, Barker has seen the following men: Fat Warren on the train coming from New Hampshire. He is now located at Nashua, N. H., working for the B. & M. R.R., with expectations of being President of this road some day.—M. S. Wellington at Lawrence; he had just come in from Springfield to install a new pump at the pumping station for the city of Lawrence.—John Woods is at present with the U. S. Cartridge Co. at Lowell and would like to see any '16 men who happen to pass through Lowell. He has recovered from his broken arm, but finds that after this third break, his arm is not working quite as well as before. We advise John to leave other peoples' Fords alone.—Frank E. Drake, is now located at Schrafft's, 11 Summer Street. He has a job that requires a lot of hard labor, such as tasting candy and ice-cream sodas. From all appearances, it agrees with him.—Edgar L. Kaula, X, is Lubricating Expert with The Texas Co., Australasia, Ltd., Sydney, N. S. W.—Beirne S. Bullard, XIII-A, is Lieutenant Commander Construction Corps, U. S. N., and Plant Engineer, Puget Sound Navy Yard.—Stanley F. Barker, XI, is Senior Assistant Sanitary Engineer, Illinois State Department of Public Health. He married Elizabeth Brent Jones, and has a daughter, Elizabeth White, born in 1923.

E. F. Hewins, XIII, writes: "Some of my classmates may be wondering why I have not been interviewed by the American Magazine yet, or why they have not seen something in the *New York Times* about 'Another M. I. T. Man Achieves Fame.' It does seem rather hard to explain. Certainly, it is through no lack of ability that my reputation has not ascended, or my name remains unsung and yet how to explain the fact that I am still punching a time clock, and must needs arise at daybreak in the morning? I am wondering if those of my classmates who kept the faith and followed their professions, are also still punching a time clock and drawing pay in proportion. I would be willing to bet, for example, that those who are making the biggest success are the ones who studied architecture and are publishing magazines, or those who studied Naval Architecture, and are selling hairpins. However, do not conclude that a small pay envelope embittereth the soul, for, like the sage who had already made his wad, I am ready to agree that 'Money isn't everything.' A cozy home ruled by the finest boss I ever had or ever expect to have does not tend to breed discontent. So, as long as my wife realizes how wonderful I am, even though the corporation I work for doesn't, everything is O.K. And it isn't the corporation's fault either, because nobody ever gets promoted where I work, unless battle, murder or sudden death occur in the ranks above. There doesn't seem to be much promise for the future at shipbuilding just now either. At the rate things are going now, it looks as if we would be lucky to retain our jobs at *Newport News*, and all hopes of raises have long since vanished. Nevertheless, while the job holds out, I expect to take a trip north in June. Come down and look the Leviathan over some time."

Richard L. Ahearn, I, married Miss C. Jane Kane on June 10, 1922. Address, 2754 Grand Avenue, New York.—Herbert H. Neilson, VI, is Captain of Cavalry, U. S. A. and is stationed at Fort Ethan Allen, Vermont.—Herbert Mendelson, X, is President of the Hudson River Woolen Mills, at 123 West 87th Street, New York.—Shatswell Ober, XIII, is Research Associate, Department of Physics (aeronautics), M. I. T. He married Alice Hurmel in June, 1921, and has a daughter, Marjorie, born October, 1922.—Theodore C. Jewett, II, is Operating Superintendent for the Larkin Co., Inc., Buffalo, N. Y.—I. B. McDaniel, IV, is Lieutenant Construction Corps, U. S. N., at Puget Sound Navy Yard, Washington. Mac says Rusty White is going to California and go into business. No other '16-ers out in that neck of the woods.—Alexander Martin, Jr., VI, is Lieutenant, Civil Engineering Corps, U. S. Navy Yard, Philadelphia, Pa.—R. S. Lyman (irregular), is a Fellow of Medicine, Johns Hopkins Hospital, Baltimore. He married Pauline Bessell, on August 29, 1922.

Herbert Gilky writes: "Wish I had something juicy for the Review, but any present items would be about as delectable as a sawdust sundae. May have something further by way of news later. Although the work here may lack thrills, it does have interest and lots of it. This is a great school. (University of Illinois.) Glad to see renewed signs of interest from the sixteen-ers. Since graduation, we have cut a bigger splurge as individuals than as a class organization, I fear. Greetings to all the Class."

Edwin A. Ekdahl is Superintendent of Midland Packing Co., Shanghai, China. During the war, he served in the Navy, was released in January, 1919, and left for China to take up his present position. He is principally engaged in construction work, as the firm is planning the erection of several additional buildings. The Midland Packing Co. is one of the largest industrial enterprises in Shanghai and engages in packing egg products, such as frozen and dried eggs.

Nineteen-sixteen might like to hear what has happened to Charlotte Phelps since commencement. She writes: "The next year I married Bill Dodge, '16, brother of Parker Dodge, '07, and we are raising a 100% Tech family. We have the usual minority of girls, as we have only one to manage her three brothers, but she does it with feminine tact, and usually carries her point. I know no news of '16-ers except from Bill, and my brother-in-law, who is married and now living in Ashville, N. C. He's not changed at all since he

had such a narrow squeeze with his thesis. Of course, I've set architecture aside for a while, but some day we may build a house and all live happily ever after."

Charles M. Wareham, XI, is Instructor at M. I. T. in Inorganic Chemistry and Water Analysis.—Henry G. Morse, II, is member of the firm of Fairbanks, Morse & Co., Beloit, Wis. He says: "Haven't seen one '16 man for fifteen months; have only met one Tech man during that time, and he was not a member of '16."—Philip O'Keefe, VI, is Travelling Mechanical Engineer for the Federal Light and Traction Co., 52 William Street, New York City.—Ray B. Walter, I, is head of the Letter of Credit Department of the Guaranty Trust Co. of New York, at Paris, France. He was married in June, 1921, to Marie Marcelle Seneguer-Crozet, and has a daughter, born in August, 1922, Jacqueline Elizabeth.—G. M. Repetti, III, is Eastern Manager, Equipment Sales Department of the Dorr Co., New York. He married Thelma Martins in March, 1921, and has a son, George Martins, born February 18, 1922.

Mead Bolton, IV, is located at Ancon, Canal Zone. He was appointed the Architect for the Proposed British Legation Building, Panama.

G. M. Steese, I, is now located at Fitzsimmons, Colo.—Henry S. Benson is Proprietor of the Automobile Accessory Store, 583 Main Street, Walpole, Mass.—William L. Graves, VI, is Secretary-Treasurer and General Manager of the Resolute Mfg. Co., Chicago, Ill. He has a son, William Lee, Jr., born in 1922.—Edward B. Peters, VI, is Chief Draftsman, Narragansett Electric Lighting Co., Providence, R. I.

Wm. W. Dodge, Jr., IV-1 says: "Served as Lieutenant in the First Division and was wounded and slightly gassed, which has resulted in my being rated permanently totally disabled. I don't admit it, for although I have spent the past fifteen months in bed, I have made several inventions during that time, which are at present in process of manufacture, and I hope will be on the market shortly. Health is slowly but definitely improving." Pluck of this sort, which gets results from almost hopeless conditions, can't help but win the admiration of all '16. We wish him the speediest of recoveries to health, and all success to the inventions.

Edward H. Williams is Engineer for the Cotton & Woolen Manufacturers Mutual Fire Insurance Co., Boston. He married Irma Lanster in August, 1920, and has a son, Edward H. Williams, 3rd, born April, 1922.

Lewis S. Vose, II, is mechanical engineer for the Stafford Co., Readville Mass., and writes as follows: "I located with the above Company when I left M. I. T. in '15 and have been here ever since. I am now the Executive Assistant to the General Manager, and manage to keep pretty busy all the time. I have been fairly well treated, so have never found occasion to change. It is true that a Tech man is not needed in this line, generally speaking, but I have found in my work that the knowledge gained in M. I. T. has been of help to me from time to time. Altogether my life has been uneventful, no service during the war, no indictment for profiteering (I have never even been pinched for driving a Ford). I have lived in Arlington since I married. Here's to the success of the directory."

The Secretary is in receipt of *The Architectural Record* for March, 1923, in which there is a report by Samuel Lapham, Jr., the title of which is "Architectural Specifications of a Century Ago." It might be of interest to all Course IV men to obtain the March copy of this magazine and read the report.

Freeman Clarkson, VI, is salesman for the Federated Engineers' Development Corp. with offices at 2 Rector Street, New York City.

Maurice Holland, in charge of the industrial engineering branch at McCook field, has resigned his position to accept the post of director of the engineering division of the National Research Council, with offices in New York City. The appointment was made at a recent meeting of the engineering division of the council at the Engineers' Club, New York City. The council was organized in 1916 under the charter of the National Academy of Sciences, to coördinate the research facilities of the country for work on war problems. In 1918, by executive order of the President of the United States, it was reorganized as a permanent body for the promotion of research in the natural sciences and for the application and dissemination of scientific knowledge for the national well-being. Mr. Holland has been stationed at McCook field since January, 1919, first as an officer, holding many responsible positions and supervising important air service missions. In 1920 he resigned from the army and since has served in a civilian capacity at the local field. About a year ago, he organized the industrial engineering branch in which capacity he had charge of the organization and management problems of the engineering division. One of the functions of his new duties will be to stimulate and coördinate research in industry, particularly in the field of engineering, in a nation-wide movement. Mr. Holland is a member of the American Institute of Electrical Engineers, Society of Automotive Engineers, American Association for Advancement of Science, American Statistical Association, Illumination Engineering Society, Technology Club of Dayton, and Engineers' Club of Dayton.

Mrs. John Winfield Corley announces the marriage of her daughter, Sylvia Craig, to Mr. Vertrees Young, on Wednesday, April the eighteenth, 1923, Trinity Church, Takoma Park, D. C.—Arthur R. Keller is Dean of the College of Applied Science, University of Hawaii. He writes that about a year ago, he heard from C. S. Loper, who is Captain of Sanitary Corps, Kelley Field, Texas. There are no other classmates in the Hawaiian Islands that he knows of.

A. E. Storm writes: "When I left Tech I went into my father's business, starting at the proverbial bottom rung of the ladder. I have been hard at it ever since. I became a member of the firm about three years ago. My particular function now is being head of the Plan and Copy departments.

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1916 Continued

I knocked off a bit for the war, and spent twenty-two months in France with the A. E. F., being 'among those present' in the scraps staged in the Meuse-Argonne and around St. Mihiel. Everything is going finely with me and the only thing that could add to my contentment, would be to see more of the old familiar faces. Tell any of the '16 bunch that I extend a standing luncheon date to any of them who will look me up."

E. B. Johnson writes: "I've been in Alabama now for six years, and it's so long since I've seen a '16 man, I don't believe I'd know one when I met him. Unlike most of the men of '16, I haven't been doing many big things. Instead of that I've been chasing a few million small ones. All of which means I'm the official skeeter chaser of Alabama. Since April 1, 1921, I've been Director of Malaria Control Administration for the Alabama State Board of Health. We've made an awful dent in the malaria here, done far more than any other Southern State, and cut our deaths from malaria from over 500 per year to 200 per year in five years, so I feel we have done a little, although I can see lots more ahead to do."

Maynard C. Guss, I, is with the Standard Oil Co., at Shanghai, China, and writes: "The American mail in today brings me the Technology Review and from the 1916 notes I learn that you are providing a directory. Enclosed is the following information. 'Occupation—Construction Department, Shanghai Office, Standard Oil Co.'"

H. Rafael Lake, IV, writes: "Have under construction at present time a \$1,100,000. hotel for Fresno, Calif., and a building for the Pacific Gas and Electric Co. Have just completed a block of thirteen stores, as well as two residences."

Hovey Freeman, Providence, writes: "You may be interested to know that Ralph Fletcher, a Course I man, and member of our Class, is to be married this week in Lowell, and I am looking forward to the job of steadying him, as he goes up the aisle."

Sam Ellsworth writes: "May I use the 1916 column of the Review to do a little course advertising. If there is a lost and found column, this note should properly be placed there. To explain: Over a year ago, a circular letter was started for the benefit of all XI men. To my personal knowledge, two of our men, added their bit to this letter. The question is, where is the letter now. It would not be at all in accordance with our past performance to have one of our members neglect to add his bit and send it along. Who has the letter?"

Mark Lemmon is a member of the firm of D Witt and Lemmon, with offices at 507-508 Southwestern Life Building, Dallas, Texas.—Harvey Jackson, IV, is located at 743 Michigan Trust Building, Grand Rapids, Michigan, as an architect.—Born, January 23, 1923, a daughter, to Mr. and Mrs. Harold O. Whitney.—Harry E. Whittemore is Manager of the Whittemore Co.,

Roof Engineers, 642 F Street, San Diego, Calif.—Harold P. Gray is with the Goodyear Tire and Rubber Co., at Akron, Ohio.—James M. Evans, II, is Mechanical Engineer with the Johns-Manville Co., New York City.—Emory L. Kemp, II, is Chief Draftsman and Engineer (Refrigerating Engineer) for the Jains Engineering Co., 51 Ellery Street, South Boston.

Edwin D. Hale writes: "During 1917, I was private assistant to Dr. Gill, having an opportunity of working in the new building. Since then, except for a period during the war when I was first doing Y. M. C. A. educational work at the Great Lakes Naval Training Station, and then with the Chemical Warfare Service, Gas Defense Division, I have been with the Liquid Carbene Co. My work has been to design, construct and operate the various liquid carbon dioxide plants which our company have. Every Course X man would be interested in this type of work, as it gives one an opportunity of using almost every principle of Chemical Engineering. I am usually at the General Offices at Chicago, and would welcome any visiting '16 men who may come to the 'windy city.' I am living at 237 South Elmwood Avenue, Oak Park, Ill."

J. J. Connolly, XI, is District Engineer, U. S. Public Health Service, in charge of Interstate Sanitary District No. 5, which includes the following States: Missouri, Kansas, Iowa, Nebraska, Minnesota, North Dakota, and South Dakota.

Sidney R. Dodd, V, is with the Vulcanized Rubber Co., Monsonville, Pa., as chemist in charge, and writes: "Sam Von Tong, whom I think is classed as a '16 man, is one of the leading business men at China, according to a picture in one of the newspapers. A letter from him states that he has two children, and is one of the heads of an organization based on the plan of Stone & Webster. He has eight Tech men in his organization and is building it up fast."—Born, March 19, 1923, a daughter, Charlotte Hunnewell, to Mr. and Mrs. Walter D. Binger. Binger is Vice-President and Treasurer of Thompson & Binger, Inc., Engineers and Contractors at 13 East 19th Street, New York City.—Benjamin Kerstein, I, is General Manager of the Charlotte Mining and Highway Engineer, State of New Mexico.

Arvin Page, Course II, writes: "My first stopping place after June, 1916, was at Sault Ste. Marie, Ontario, where I raised callouses on my elbows, and under the slats of my trousers, drafting for the Lake Superior Pulp and Paper Co. The drafting finally got my goat, so I left the company in November; it was not the cold, but the drawing board that drove me out. I next moved up to Akron, Ohio, where, following such illustrious examples as Johnny Ingle, Jap Carr and Ed Weissbach, I helped make the Goodyear Rubber Co. pay dividends. When the war came on, I went to Springfield, Mass., where there were a number of '16 men, too numerous to mention. Here I had the delightful experience of teaching school with embryo machine

1916 Continued

gun mechanics as pupils. After about a year of teaching, I was sent with an outfit into the wilds of the Berkshires, to make up fire control tables for machine guns. H. E. White, II, was also with this outfit. We spent a very comfortable summer here and when cold weather came, we were sent to Miami, Florida, to complete the work. We lived in tents pitched on the beach under coconut palms laden with juicy fruit. When the winter was over, three of us bought a twenty-seven foot auxiliary sloop and after obtaining discharges we sailed it from Miami to Hartford, Conn. I cannot give you a detailed account of this trip, but it was full of thrills, one of which lasted for two nights and a day, during which time we were from one to one hundred miles off shore just south of Cape Hatteras in a beautiful storm. After recuperating by playing golf for a couple of months, I went to Palmerton, Pa., where I worked in the Research Division, when I wasn't playing golf. In January, 1921, I again stopped in Boston and in an ill-advised moment, put some money into a company, making a piece of printers equipment. After a year's work, we discontinued manufacturing and again I took a vacation. As business in general was rather slack, I took the job of managing a summer hotel in Maine. I was blessed with a good crew, so my principal duties consisted in signing checks and playing golf. I had the pleasure of entertaining Judd Vile, II, and Mrs. Vile for a week. After an arduous summer I left on a hunting expedition with the Viles into the wilds of the Connecticut mountains. If you use the word mountains in referring to this trip, please put it in quotation marks. We had unusually good luck as we hit and sunk at least a hundred tin cans. This being the legal limit, we were forced to stop and call it a perfect week. Arriving back in Boston, I played several games of billiards with Raymond, II, but finding that I was no match for him, I set out for Winston, Salem, N. C., where I am now engaged in making Bahnsen humidifiers (cotton mill men take notice). I have covered the eastern part of the country pretty well, and I may turn up in China next. However, if I do, you may be sure it will be after the Reunion in 1925."

1917

RAYMOND S. STEVENS, Secretary, 30 Charles River Road, Cambridge, Mass.

Modesty forbids more than a brief description of the Alumni Smoker at Walker Memorial on April 18 for with the largest delegation, with Bill Eddy on the committee, and with the champion charioteering team, the class gave the affair a decided 1917 complexion. The chariot race had all the thrill that could be desired, a thrill that old Ben Hur himself could hardly have bettered. The chariots were of a special type, vaguely resembling metal washtubs, and were furnished by the Dover Metal and Stamping Works, manufacturers of the famous Dover egg beater, enamel ware, galvanized wire, high grade ash cans, etc., best known as Dunning's Tin Shop. Costumes were by Kanaly. Given the pole, the four sixteen steeds started bravely, but exceptional speed and endurance, and rare skill on the part of the charioteer brought Seventeen in a full half lap ahead at the finish.

Shepherd, '16, claimed that the false whiskered 1916 crew were 1917 men in disguise, but a diligent search in the throng failed to disclose a single other 1916 man, and lacking the necessary two witnesses the judge threw the plaintiff's case out of court.

This Smoker followed close on our April luncheon and the large attendance was perhaps due in part to the preliminary description given at that time. Art Gilmour made the necessary luncheon arrangements with the management of the City Club. These arrangements were so satisfactory that there seems no reason for not announcing that the third Tuesday in every month is henceforth sacred to your class, that the hour is 12.30 and that the rendezvous is the City Club on Ashburton Place. Fifteen or more old timers are always certain to be on hand, so that you are sure to meet at least one intimate classmate. A temporary moratorium on old loans prevents possible embarrassment from that source. Plan your Boston trip with the third Tuesday in mind.

President Stratton had planned to join us at our May luncheon, but at the last minute found that important business in Washington made this impossible. Mr. Everett Morss, Treasurer of the Corporation and of the Institute, generously acted as a pinch hitter and told us something of what has been happening at the Institute since Dr. Stratton took office. Mr. Morss's talk, together with the large attendance, made this May luncheon one of the best we have had. It will be noted in the list of those who were present, that several of the men came some distance to attend. Ames, C. E., VI, Auty, Clarence, VI, Bernard, F., VII, Blackall, Robert M., IV, Blanchard, R. H., X, Brown, Roger B., X, Carter, A. A., VI, Childs, K. M., II, Chisholm, H. V., II, Clark, E. M., X-A, Clayton, H. C., XIV, Clayton, L. L., XIV, Dean, Carlton M., X, Dickson, A. D., I, Dodge, B. F., X-A, Doon, J. W., XV, Dunham, A. P., II, Dunning, S. C., X-V, Eaton, R. H., II, Ferretti, A. J., II, Gilmour, A. E., II, Gramstorff, E. A., IV, Hill, L. T., XV, Hunt, G. A., I, Hunter, W. B., X, Lane, S. M., X, Levi, E., II, Lobdell, H. E., IV, McDonald, R. E., X, McGrady, L. L., XV, McManus, J. D., XIV, Stearns, F. A., II, Stevens, R. S., XV, Siegel, Samuel, X, Solakian, H., III, Tuttle, A. E., II-VI. As usual, Penn Brooks had a legitimate excuse. His letter of May 11 said in part: "I have to tell you that I cannot be present, much to my regret. You see, last Saturday, we became parents of a daughter, Beverly, and I cannot get away now."

At least three members of the class were seen at the New England held May 19 at Tech Field: W. B. Colleary, Cy Medding, and the Sec-Emeritus. The latter two were perched in the stands while Bill flaunted a medal and officiated as a Field Judge for the Shot Put and Broad Jump events. Cy arrived in town some days previous on leave from his army assignment as

C. O. of the R. O. T. C. at the Missouri School of Mines. He paid the Institute a visit and bumped into a minor league class luncheon but couldn't stop. This luncheon was of an official nature tendered to K. M. Lane, holder of the world's record for qualifying as an airplane pilot in the shortest time, by the Secretary and Secretary-Emeritus. An account of Ken's feat appears elsewhere in this issue. Professor E. P. Warner, '17, was also present, so that the affair took upon itself an international aviation aspect. It is only fair to state that Ken bought the lunch.

An informal get-together was tentatively planned for the week-end preceding Inauguration, but the special committee which took it in charge, found that the time available was insufficient for arrangements which they considered satisfactory, and they consequently dropped the idea with the recommendation that it be considered next year. At the Inauguration itself, a number of men showed up who had not been attending the luncheons, among them Bill Hunter, specialist in galluses. Penn Brooks was particularly pleased when he saw Lobdell in the academic procession and remarked on the Assistant Dean's extreme courtesy. It seems that the stage was slightly crowded and Lobby stayed down in order that two others might go up.

Johnny DeBell has not been seen in this vicinity recently, but we have a card from him announcing that Frederick Dewey DeBell arrived on April 7, weighing a generous eight and one-half pounds.

E. G. Polley, who left Canada to join the Harry M. Hope engineering organization of Boston, advises us of the arrival of a daughter, Dorothy Mildred, on April 6. As you may know, Ed has a son some eighteen months old.

Stan Dunning tells us that H. C. Newman announced the arrival on March 8 of Harold C. Newman, Jr., at Des Moines, Iowa. Newman, Sr., is understood to be making a big success of a contracting business with his brothers.

We also received the following note from Edwin M. Woodward: "I just wanted to tell you that on May 21 we were the recipients of a baby daughter. We have named her Anne Josephine and she is very beautiful. I call her the Empress Josephine, because she surely does rule the house. It's great to feel the responsibility of a family, and I find that it is doubtless going to take about a stroke a hole off my golf score. Kindest regards to all seventeeners."

In this connection, Art Gilmour reminded us that he had seen no note concerning his husky duplicate, Billy Gilmour.—George M. (Monty) Lovejoy, Jr., is now an assistant special agent with the American Alliance Insurance Company at 18 Oliver Street, Boston.—Ed Rounds, II, is stationed at the Naval Air Craft Factory, U. S. Navy Yard, Philadelphia. Ed holds the rank of Lieutenant, U. S. N.

About the time of the Tech Show the Class Treasurer advised the Secretary that some dues had been paid recently and it was suggested that the two attend the Show. There we ran into C. Cochrane, who is with D. E. McIntire, contracting engineers, at 74 Broad Street, Boston. His company's specialty is conveying coal handling machinery, etc. We also met Donovan, who is with the Merrimac Chemical Company. He was recently married to a Virginia girl.

We note with some pride the extensive favorable criticisms in the technical journals of "Principles of Chemical Engineering" by William H. Walker, Warren K. Lewis, and W. H. McAdams. This book is spoken of as marking a new era in the science of chemical engineering. To be sure, Mac had a slight start on the rest of us, but he is still officially included in the 1917 roster.

Bill Eddy has become one of Boston's prominent engineers. We note his election as Clerk of the Sanitary Section of the Boston Society of Civil Engineers and his name on a letterhead, in real printer's ink, as one of the "other directors" of the Anti-Mosquito Society of Massachusetts.

Ken Bell, X-A, has left the Lewis Recovery Company to go with the A. C. Lawrence Leather Company at Peabody, Mass., as their chemical engineer. He advises us that E. M. Clark, X, and Ray Blanchard, X, are with the Hood Rubber Company, Watertown, Mass., and that both have recently joined the proud father group.

A card from Howard Stewart, XV, proved that he had recently been to Atlantic City. Stewart now carries much of the responsibility of the Stewart Boiler Works in Worcester, but is also Grounds Chairman of the local tennis club and is apparently as active a tennis player as when at the Institute.

We have the following two notices from our New York financiers. It will be remembered that Frank P. Montgomery Company, is Bob Marlowe's insurance outfit. "Morin S. Hare & Co., members of New York Stock Exchange, take pleasure in announcing that Mr. Enos W. Curtin formerly in the Buying Department of the Guaranty Company of New York, is now affiliated with their firm."—"Frank P. Montgomery & Co. announces the removal of their New York office on May 1, 1923, to 100 William Street."

The following announcement also reached our hands: "Mrs. Harriet Page Junkins, announces the marriage of her daughter, Madeline Junkins Page, to Mr. Walter Franklin Pond, on Saturday, the twenty-eighth of April, one thousand nine hundred and twenty-three, Weston, Massachusetts.—At home after first of June, 1108 Rolla Street, Rolla, Missouri."

A. R. Brooks is now located at 9 Park Street, Boston.—Dad Wenzel is with Harris Forbes in New York, on appraisals. He ran into Brick Dunham in Montreal.—Gilbert A. Hunt is now with Stone & Webster and is living at 203 West Newton Street, Boston, Mass.

We have the following clipping from the *Boston Transcript* of May 19 concerning our dear classmate, Paul D. Childs, whose affection for the Review was noted in a previous issue:

"From 'Cedar Cliffs,' their summer home on Puritan Road, in Swamp-

1917 Continued

scott, Mr. and Mrs. William Augustus Jeffries, of 236 Marlboro Street, announce the engagement of their daughter, Miss Clémence Despaigne Jeffries, to Paul Dudley Childs, son of Mr. and Mrs. Albert Walter Childs of Kansas City, Mo., and Cambridge. Mr. Childs is a graduate of Harvard, 1914, and of Technology, 1917."

Occasionally, we regret the ruling of the editors that we must pay heavily for publishing pictures with these notes. The *Boston Post* printed a bee-you-tee-ful half-tone of Ham Wood and Mrs. Ham Wood. We are told that the very broad grin on Ham's face was far from being temporary and that he carried it from the time he came East until he left on his honeymoon. The *Transcript* of May 12 gave the following details:

"Invitations have gone out from Mr. and Mrs. Edmund Billings, of 80 The Fenway, for the marriage of their daughter, Miss Katherine Godfrey Billings, to Hamilton Lansdowne Wood, which is to take place on Friday, June 1, at half-past four in the afternoon, at St. John's Episcopal Church in Jamaica Plain, where Mr. Billings and his family formerly lived. Reverend Thomas C. Campbell, rector of the church, will perform the ceremony, immediately after which a reception will be held in St. John's parish house."

The following was received from Alexander H. Kenigsberg: "Can you tell me at this time when the commencement exercises come off, and just what will take place, and also where and what is planned for the inauguration of our worthy President, Dr. Stratton? I am planning to visit Boston during my vacation, and I should like to time it so as to cover the two grand celebrations in a single two-week raid, if possible. Should you meet C. M. Dean, please remember me to him, and urge him to prepare for an old battle royal on the checkered field." Al's card reads "Civil Engineer, 1014 Dakin Street, Chicago."

From the *Chicago Tribune* of May 20: "Pierre Blouke has been elected new President of the Chicago Architectural Club. Mr. Blouke is with Bennett & Parsons. He was a graduate of the Massachusetts Institute of Technology, Class of '17, and later studied in Rome. He won the \$1,000 traveling scholarship of the Chicago Architectural Club in 1919. The retiring President is Clarence Farrier, who recently opened offices on upper Michigan Avenue. Both Mr. Farrier and Mr. Blouke were on the city zoning staff. Mr. Blouke has a measured drawing of San Marco in Rome at the annual exhibition of architecture now being shown at the Art Institute."

We wish space were permitted us to publish in toto the voluminous correspondence between one Dud Bell of Philadelphia, and the Secretaries at Cambridge. If space did permit such publication, the managing editor would possibly censor such a promiscuous distribution of certain portions of the letters. He says in part: "I accidentally met Nig Sewell in this city yesterday, and found that he is here attending to some sales work for some mill in New England. Incidentally, he is having a fair time due to the efforts of Tutein and, if possible, I also shall assist in making him feel more at home."

"I wrote you yesterday in reference to the wedding of Althouse, but I think as far as publication is concerned, you had better only announce the name of the bride and the best man."

Clarence Auty writes from 198 Washington Street, Melrose, as follows: "I have not noticed anything about the marriage of Charles Abels, VI, in the Review, so will send the notice as I received it, in case you want to use it. —Mrs. Amelia L. Schroeder announces the marriage of her daughter, Hilda Beatrice, to Mr. Charles August Abels on Saturday, December the twenty-third, nineteen hundred and twenty-two, Philadelphia, Pa."

Having heard several versions of Bill Hunter's travels, we asked him for the facts of the case. Fortunately, from Shirley, Mass., he gave them to us in writing: "Your dope was only partly right. I left here last October on a trip to the Argentine, Chile, Uruguay and Brazil for the company, but not starting any factories this time. Just went down to get first-hand information on those markets and encourage our agents a bit. Managed to bring home some orders too."

"I was in Rio while the Exposition was in progress, which by the way can hardly be called an unqualified success. I got back in February. While in B. A., I saw George Hutchings, '18, and we had several hilarious reunions. I'm home in Shirley now for some time I expect. Will drop in and see you sometime I'm in town. Oh, I saw a good deal of Alex Halbentadt, '16, in Santiago, and also saw Stanley Baxter, '15, in Valparaiso. Alex is selling Miller Tires in Santiago and Stan is a consulting mining engineer there. That's about all there is, Ray."

We have two descriptions of Rad Stevens recent political maneuvers. As they conflict to some extent, we are compelled to print them in full. You may draw your own conclusions.

"We had a great time at the Chicago Reception to Dr. Stratton. You fellows in the East can't beat us; 1917 was the first class to cheer Dr. Stratton at the banquet, but Peacock said he would send you all that dope. As for myself, I have charge of the Train Department of the Elgin Watch Co. here. Just at present, we are turning out 3600 watches a day. My department is the largest in the factory with 502 employees. By the way, 397 of them are girls. To date, I have no matrimonial affiliations and accordingly admit no offsprings. Managing 397 six days a week is enough of a job and I don't dare take on another."

"I have just finished a short political career. The Mayor of the City has held his job for sixteen years, and is a damned old reprobate. Each election they put up a decent man but the old son-of-a-gun wins. This year they signed me as campaign manager and we showed them some Eastern politics and got away with it. It was some fight, but we won by 1,000. It sure is a rotten game. I'm going to retire with a 1000 average, 1 win and no losses."

INDUSTRIAL LIGHTING CODES.

In order to protect workers from accidents and eye sight damage, no less than five states, New York, New Jersey, Pennsylvania, Wisconsin and Oregon have now in force lighting codes for industrial establishments. Other states are now considering the adoption of an industrial lighting code, and it seems only a question of time when all the states will adopt such a code.

Proper lighting of work places is not only of great importance to the operators working therein, directly affecting their safety and eyesight, but it is a factor of equal importance to the employer, as quality and quantity of output are deciding factors of profit or loss in the operation of the plant.

The introduction to the Wisconsin code reads as follows: "Insufficient and improperly applied illumination is a prolific cause of industrial accidents. In the past few years numerous investigators, studying the cause of accidents, have found that the accident rate in plants with poor lighting is higher than similar plants which are well illuminated. Factories which have installed approved lighting have experienced reductions in their accidents which are very gratifying."

"Of even greater importance, poor lighting impairs vision. Because diminution of eyesight from this cause is gradual, it may take the individual years to become aware of it."

"This makes it all the more important to guard against the insidious effects of dim illumination, of glaring light sources shining in the eyes, of flickering light, of sharp shadows, of glare reflected from polished parts of work. To conserve the eyesight of the working class is a distinct economic gain to the state, but regardless of that, humanitarian considerations demand it."

"Finally, inadequate illumination decreases the production of the industries of the state, and to that extent, the wealth of its people. Factory managers who have installed improved illumination, are unanimous in the conviction that better lighting increases production and decreases spoilage."

The Wisconsin Commission has adopted a rule to the effect that, "diffusive or refractive window glass shall be used for the purpose of improving day light conditions or for the avoidance of eye strain, wherever the location of the work is such that the worker must face large window areas, through which excessively bright light may at times enter the building."

A glass is now available which meets the above requirements. It properly diffuses the light and prevents sun glare passing into the building and is known as Factrolite.

Engineers of to-day are making a thorough study of illumination, so that they may be able to plan and lay out industrial plants, to scientifically increase their efficiency to as near the maximum as possible. This accomplished the engineer is not only doing something worth while for his employer, but is doing quite as much for himself by coming into prominence with modern ideas.

If you are interested in the distribution of light through Factrolite, we will send you a copy of Laboratory Report—"Factrolited."

MISSISSIPPI WIRE GLASS CO.,

220 Fifth Avenue,

St. Louis.

New York.

Chicago.

1917 Continued

"That's about all the dope. If any of the boys get out this way, look me up. I expect to be in Boston in August on my vacation. Best to all the boys—Signed, Rad Stevens, 70 South Chapel Street, Elgin, Ill."

Frank Peacock writes the following:

"I'm a ??? of a writer — but I was elected to do the writing for the gang. But before I start on my mad line, permit me to apologize for pencil and poor writing. I am en route to Beloit, Wisconsin, at present.

"On April 5 we had the annual Tech Club of Chicago dinner in honor of Dr. Stratton, and it was some turnout. About 160 of 400 members were present. Good eats, etc. Old 1917 was 62 1/2% present. The following showed up: A. H. Keningsberg, R. W. Drobish, Pierre Blouke, Rad Stevens, and F. E. Peacock. We had a rousing good time. Blouke is on the city planning commission for the City of Chicago. But the best is old Rad Stevens of Billy Sunday fame. Rad, as you may not know, is with the Elgin Watch Works at Elgin, Ill. But that is only his minor duty. He is managing a mayoralty campaign for an Elginito who aspires to the office of mayor. I was unable to find out what office Rad had picked out for himself — but guess it must be Chief-of-Police. You see, he almost made their acquaintance under most unfavorable conditions a short time ago. He is a member of a most select club that patronizes an old time lager factory. One morning about 1.00 a.m. to be exact, he and his cohorts received word that the brewery was to be raided. Forthwith, his gang sallied forth with trucks in the dark of the morning and by daybreak when the denizens of the law arrived — well it was all gone, that's all. But two truck loads were captured by Chicago police — so I don't know who lost.

"Thus endeth the first lesson. With best regards to all the seventeeners."

1918

JULIAN C. HOWE, *Secretary*, 551 Tremont St., Boston, Mass.

Well, men, the old Class of '18 has had its Five-Year Reunion party and those who were there are sorry for those who were not. Eighteeners from far and near were on hand, — Sturtevant, of Course II, who came from Minneapolis and dropped in on us Saturday evening, holding the record for long distance. Others who traveled overnight to come, were Bridgewater from Akron, Ohio, Jim Langley, from Michigan City, Ind., Aaron Goodman from Baltimore, Yale Evelev, from Lebanon, Pa., Manter, from Lancaster, Pa., Ray Miller, from Bangor, Gretchen Palmer, from Morristown, N. J., Perry Hewitt, from Philadelphia and S. R. Cummings and wife from Lafayette College, Pa., and a sizable delegation from New York City. According to the Secretary's observation, if anyone present failed to enjoy the week-end he or she must have been a clever dissembler.

Briefly, the program was as follows: About thirty-five members of the class and wives assembled for dinner Friday night. After dinner, Parker Kennedy obliged on the piano for those who craved a song and dance. The rest of the evening was spent without special events, but it was not hard to enjoy the natural advantages of Scituate, which were aided by perfect weather. Saturday morning, several of the more venturesome went in for a dip before breakfast. After breakfast, the crowd, added to by a steady influx from Boston, scattered over the Hatherly golf links and tennis courts and the beach. By noontime, there were over fifty assembled and after lunch Sid Judson and Pete Harrall acted as official photographers. Unfortunately, their efforts are not available to reproduce here.

Bob Van Kirk made a spectacular entrance at this point by driving up in front of the Hotel and parking his machine just before the police came along with a "No Parking" sign. They were lucky to get away without having to buy a Protecto-Seal.

In the afternoon, there was tennis, golf and swimming again, as well as an impromptu baseball game on the beach, in which a number of the ladies participated. Gretchen Palmer, our only co-ed present, was a particular star at first base. Bill Ryan was high man at the bat, striking out four times after having warned Julie Howe, the catcher, to look out when he threw his bat.

Earl Collins arrived about four o'clock with his jazz orchestra, and those who were interested in this form of indoor sport enjoyed a few steps before dinner. At 7.30 our toastmaster, Johnny Clark, having been sufficiently prepared for the duties of his office, conducted the crowd to dinner.

From that time, the attentions of the seventy-five hungry eighteeners were divided between their dinner, the toe-tickling music and the toastmaster's dissertation on the subject of marriage. When the smoke cleared away, a few of our members were called upon to speak. Honors in this form of activity going to Maggy Magoun. The orchestra was then turned loose and kept the marathon dancers at it until after midnight, when all but a few bridge enthusiasts crawled away to bed.

Sunday morning was uneventful except for the visit of Len Levine, and Sam and Mrs. Fuller with their very attractive 1918 junior. After a one o'clock dinner the crowd gradually drifted away, after expressing themselves as having had a very worth-while reunion. The only thing to be regretted is that a larger percentage of the classmates living in the vicinity of Boston, did not attend, but it is hoped that when the news of this one gets noised around, they will make up their minds not to miss another one.

Others present, aside from those already mentioned, were as follows: Bob Longley, Pete Harrall, Don Goss, Walter Biggar, Mr. and Mrs. Jack Hanley, Walter Henry, Al Sawyer, Eddie Gore, Ken Reid, Ev Rowe, Mr. and Mrs. Stan Cummings, Phil Shelton, Mr. and Mrs. Bill Ryan, Mr. and Mrs. Julie Howe, Mr. and Mrs. Chink Watt, Mr. and Mrs. C. E. Tucker, Bernie Pinkham, Mr. and Mrs. Granny Smith (who, by the way, announce the recent acquisition of a bouncing daughter), Al Russell, Grenny Hancock, Sax Fletcher, Mr. and Mrs. Harold Collins, Mr. and Mrs. Earl Collins, Waldo McGuire, Mr. and Mrs. Ralph Whitcomb, C. M. Beattie, Joe Kelly, Tom Fogarty, Asher Joslin, Herb Polleys, Stew Boyd, Mr. and Mrs. George Sackett, Mike Malley, Mr. and Mrs. Jim Longley, Jake Young, Loring Wirt, Mr. and Mrs. Philbrick, Jerry Giuranovich, Max Seltzer, Mr. and Mrs. Bill Wills, Mr. and Mrs. Harold Kaler, Stewie Wallace, and three young ladies only informally connected with the class, Misses Taylor, LaPointe and Farren.

1919

PAUL D. SHEELINE, *Acting Secretary*, 19 Congress St., Boston, Mass.

This number of the Review will be the last for the summer months. The next issue will appear in November and it is hoped that everyone will pass an enjoyable summer and make the best possible use of his vacation. Word from the Course Secretaries has been rather meagre, but we hope that by the time the next issue comes out, everyone of the men will have a lot of news to tell. The most important thing to bear in mind during the coming year, is our reunion in June, 1924. The fifth reunion is one which every member of the class, who possibly can, ought to attend. Definite plans have not been made as yet, but it is safe to say that our meeting will take place during the early part of June and we will probably go to some suburban resort in the vicinity of Boston, where we can have a real old-fashioned get-together without being arrested. It has been suggested that those men who have taken the fatal step should bring their wives along and a special party will be arranged for the ladies. None of this, of course, has been definitely arranged, but make your plans so that you can be with us next year.

Nineteen-nineteen men in the Limelight.—The Carnegie Hero Fund medal has recently been awarded to Frederick A. Parker, who saved a girl from drowning on March 19, 1918, under extremely dramatic circumstances.—O. F. O'Donnell who is now teaching in the School of Commerce of Chicago University has been appointed to the newly-created position of Professor of Engineering Economics at Iowa State College. He will have direct charge of the work in Economics for all engineering students. Since graduation from M. I. T., he has taken his Master's degree at the University of California and will receive a Doctorate at Chicago University in June.—An engagement just announced by Mr. and Mrs. Samuel J. Hunter of East Arlington, Mass., is that of their daughter, Miss Ruth Mabel Hunter, to Roger Tyron Hall,

Russell & Fairfield

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We are willing to worry for our customers. We emphasize the "for." Anyone who has ever dealt with the printing trade will acknowledge, perhaps sadly, that if the "for" were omitted the sentence would become the apparent slogan of more than one firm.

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The result of this belief is a steady insistence, in our plant, that no work be delivered to a customer until inspections, checks and inquiries have removed to the fullest possible extent the possibility of error or dissatisfaction.

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**PRINTERS to the TECHNOLOGY
REVIEW**

1919 Continued

son of Mr. and Mrs. Herbert C. Hall, also of East Arlington. Miss Hunter who formerly lived in Springfield, is a graduate of the Boston School of Fine Arts. Hall is now a civil engineer connected with a Boston firm.—Holley Winkfield of the faculty of the Lowell Textile School is the advisor of this year's musical comedy production entitled "F'rinstance."—An attractive wedding took place in Fall River recently, when Miss Edna H. Roberts of that city became the bride of George W. McCrerry, also of Fall River. McCrerry is a civil engineer with the Fuller Construction Company of Boston. His bride was a former teacher in the New Bedford Schools. After their honeymoon, Mr. and Mrs. McCrerry will reside in Wollaston.—The wedding of Miss Dorothy S. Aiken of Flatbush, N. Y. and Franklin, N. H., and Mr. Rogers Bruce Johnson of Cambridge, Mass., occurred Saturday evening, April 14, at the Baptist Church of the Redeemer in Brooklyn. Miss Aiken is the daughter of Charles W. Aiken, '91.—Robert R. Litehiser has resigned his position as Federal Project Engineer with the Ohio Division of Highways to accept an opening with the Highway Construction Company. His address is c/o Y. M. C. A., Elyria, Ohio.

Course I

SCOTT KEITH, 20 Hartford St., Newton Highlands, Mass.

I am sorry, but it will be necessary for me to turn over the work of Course I Class Secretary to someone else. I have been laid up for two weeks with the gripe and then was sent to Hopedale, Mass., for field work for an indefinite period. I am now starting the third week here and expect to be here for three or four months, anyway, with no time nor opportunity to carry on the work. I am sorry things turned out this way and wish I might help.

Course III

W. S. BURBANK, U. S. Geological Survey, Washington, D. C.

Although I have written to quite a number of the men, have as yet heard from only one: George Fleming. The addresses of some of the men may be old but hope to get in touch with some of them before long. Would like to get address of men by name of Martinez and Beeche of Course III. They were not on the list which you sent.

George Fleming reports that he has nothing further to offer about himself other than has appeared in a recent number of the Review. He reports that he is "still single, chronically broke, and apparently sane and normal." George writes, "Our friend Everit, who was reported cheerfully, more or less we assume, whacking a flea-bitten burro over the wastes of Mexico in search of the elusive mineral, is once more taking up higher culture at the Stute."

Oscar Mayer is apparently a will o'-the-wisp, but a passing Techite reported seeing him around New York. Jimmy Reis has vanished into the desert wastes of Arizona and two letters of mine remain unanswered—doubtless they have not caught up with him. Bob Lewis is applying, or was, the principles of mining in the butter and egg business in Beantown.

I saw Everit myself last December in Boston but can add little to the above news. He had been working for the American Smelting and Refining Co. for some time in Mexico. I suspect he is still taking up work at the geological department at the Stute, but I dropped him a few lines a while ago and have not yet received a reply.

As for myself, in 1920 and 1921, I spent seven months or so in the Republic of Haiti on a general geological and economic survey of the country carried out under the supervision of the U. S. Geological Survey. Since that time I have been working in Washington assisting in the preparation of a report and on other work. Like George, I am still single, etc., etc.

I hope by time for the next issue to have heard from some of the men.

Course V

Richard F. Cashin, 390 Harvard St., Cambridge, Mass.

Harry Peach writes in part: "As per your request, I am sending a little dope on Felix Omelich and myself. My first job after leaving the Stute, was with du Pont where I stayed until the Armistice. Omelich during this time was working for Sherwin-Williams in their dye department.

"After spending Christmas with my folks, I went to Chicago to visit Felix. There I managed to hook on with Wilson and Co., the packers. We chummed around together until March, when his company gave up their dye department. Exit Felix. Thereupon, I jacked up my job and we hopped aboard the Santa Fe for a visit to the Golden West.

"We had a wonderful trip, taking in the beaches, Venice, Santa Monica, Long Beach, The Catalina Islands, etc. Failing to locate a permanent job, I came back East in the summer of 1919.

"Omelich obtained a job with The Union Oil Co. in California. He started in the drafting department, but after consistent plugging secured a position on their research engineering staff. He is now well established there with a very promising outlook. Much to my surprise he married around Christmas time. His address is 930 Bucknell Avenue, Alhambra, Calif. So much for Felix.

"After returning from the West, I went to work for du Pont again. I stayed a few months and then jumped to Lowell to work for the Avery Chemical, making lactic acid. In March, 1920, I hopped to the General Electric at Schenectady, and in the fall went with the U. S. Rubber at

1919 Continued

Naugatuck, Conn. In the spring of 1921, I invested in a Real Estate and Employment Office in Malden. After conducting this for nine months, the business depression got me and I was forced to hunt a more lucrative job. Chemistry again claimed me and I located with the Beacon Blanket Co. of New Bedford. Here I stayed until last fall. Then I decided to try my hand at school teaching. I signed up with the high school of Townsend, Mass., where I am located at present. This concludes my wanderings.

"As you can deduce from the above, I am still single. Remember me to any of the old gang you happen to meet."

Harry certainly has had quite a varied career to date. He's a regular "Jerry on the job."

On June 15, Dutch Seifert assumes the duties of Superintendent of the By-Products Steel Corporation of Weirton, W. Va. Any mail will reach him at this new address.

Course VI

ARTHUR C. KENISON, c/o Moore & Summers, 97 Milk St., Boston, Mass.

Met Fred Parker the other day, who has recently returned from three years in China with the Standard Oil Company. Fred says that the Orient is great stuff and he is planning to go back again shortly. He had become quite proficient in the Chinese language but is still unable to understand a chink laundryman due to the fact, according to him, that said chink speaks a dialect and not the pure Manchu. He has had lots of interesting experiences and would be glad to see as many of the "old guard" as possible while he is here in the States.

Joseph Kaufman, one of the old VI-A bunch, has left the U. S. Rubber Co. flat, and is now in business for himself down in New Haven, Conn.—Holden Priest has recently become the proprietor of an honest-to-goodness laundry and is doing business under the name of "The Nonpareil Wet Wash" at 431 Neponset Avenue, Dorchester.—Russ Palmer and Eugene McLaughlin are still engaged in pulling the N. E. Tel. & Tel. out of a bad hole, and Henry Whiton (also of VI-A) is still "standing by" at Stone & Webster's. ("Standing by" is the right expression, too.)

Russ Hubbard informed me that he has left the Ginter Company to its own resources and is now with a financial house in the city here.—Leo Beaulieu has gone back to the Generous Electric, according to last reports, and is located at their Lynn plant. Funny how all the VI-A men seem to gravitate back.

There isn't anything else that is new that I can think of now, and so, we'll stop right here. Simply haven't had a chance to write to the members of this course, but I hope that the gang won't stand on ceremony—simply address me at 97 Milk Street, Boston, and send in some news.



Where Three Worlds Meet

The men and women of three worlds meet in the foyers of the Lenox and the Brunswick—the Professional World, the Business World, and the World of Society.

Two distinguished hotels, close to the Back Bay stations, near the theatres, neighbors with fine shops.

The Brunswick

Boylston Street at Clarendon

The Lenox

Boylston Street at Exeter

BOSTON, U. S. A.

Course X

GEORGE C. MCCARTEN, c/o Sherwin-Williams Co., Chicago, Ill.

Your list of Course X men finally rolled in and I'm doing my best to get some results.

I don't have much to report so far. I'm still able to take nourishment. Doc Flynn took on my ex-job at Palmerton, and is now Assistant-Chief of the Lithopone West Department. I got a wild and lengthy letter from one F. S. Hopkinson. The old devil is with Eastman, leads the life of Reilly, is a bachelor, is chief nurse of a Testing Laboratory, and is just recuperating from a trip through Europe. Gosh, why don't I get a deal like that! How would you like to look one of High-Ball John's Sloe Gin Fizzes in the eye? Saw Duke Herzog; he is in a broker's office out here.—That's my wad to date. I'll do better next time.

Course XI

ROGER T. HALL, 36 Henderson St., Arlington, Mass.

Our Course XI boys haven't been very proudly represented in the Class Notes of the new Review and, for such a calamitous oversight, I am willing to take my share of blame. It has given me no little pleasure and satisfaction to keep in touch with many of the fellows with whom I was most intimately associated in our class, and it is my desire to re-introduce some of the fellows to the class.

Russell Smith is holding fast (and I might insert in here that most of us are not) to the practice of Course XI. He is still connected with the Sanitary District of Chicago and tells me, that recently he has been assigned to assist in the operation of Chicago's most recently completed activated sludge plant, in the construction of which I had a hand three years ago. Queer coincidence. He has acquired a better half, and settled down in a quiet suburb of Chicago. It was during the Christmas holidays of last year that I had the pleasure of meeting Smith and Mrs. Smith, whom I have known for a number of years, as it happens that all three of us are loyal ex-citizens of the beloved town of Arlington, Mass.

Les Jackson has bobbed up from the mysterious unknown again, and informs us that he's done a bit of globe-trotting the past year, offering this as his excuse for leaving us groping in the dark as to his whereabouts. Perhaps that's rubbing it in a little on Jack, and, lest my conscience disturb my peaceful sleep, I'll say that Jack did drop me a line months ago, and my own carelessness was responsible for losing track of our "athletic" Jack. He is following the water consistently, and, when last heard from, was somewhere in New Jersey, representing a hydraulic engineering concern—right, Jack?

A letter from Walworth recently relates of his success as a schoolmaster in Lakehurst, N. J. He and Jack last week had a reunion in New York, and, from all indications, must have had a glorious time, not alone reminiscing. It was just about a year ago, that we three met in Walt's home town, Lowell, and that reunion was one long to be remembered, short but sweet. Well, Jack and Walt, you are both near enough to Washington to catch the fragrance of the Japanese cherry blossoms along the Basin, so why not run down soon, and we'll have another blow-out?

Best wishes to you and the Class of '19, with the hope of learning more about our members in the November issue.

1920

KENNETH F. AKERS, Secretary, 54 Dwight St., Brookline, Mass.

Dear Gang: This is to be the Commencement number of the Review, and I feel very ashamed at the amount of material that I have on hand to make up our notes. For the first time since this delightful job was wished onto me, I fell down last issue, and failed to hand in any notes, and I offer my apologies to you all. Maybe it is my fault that there is no more interest shown by the class; if so, I shall try to remedy that right off by getting out a circular letter; then the rest is up to you.

At the close of this article I will submit a financial report, so that you may all see that I have not embezzled your money.

Bobby Sumwalt writes from Charaw, South Carolina, where he is in the capacity of special agent for the Atlantic Life Insurance Company. After leaving Tech he was with the United States Public Health Service as Assistant-Superintendent of construction work. From there, he went with the State Highway Department as resident engineer, which job he held until resigning to go into his present work. He says he sold one M. I. T. graduate one million dollars' worth of insurance for inheritance tax purposes. Good work, Bobby, go to it!

Henry Murphy writes from Aedipsos, Greece, where he is running a boys' orphanage. He says that his time is pretty full attending to the little paternal duties of feeding, clothing, and spanking a thousand wild Greeks. When a man thinks to write from a far off spot like Greece, some of us ought to be ashamed of the amount of writing we have done.

Merrill Knox is connected with the McGraw-Hill Company, as Chicago Editor to their two papers, *The Electric Railway Journal*, and *Bus Transportation*. From all reports, married life is agreeing with him.—E. C. Glover is located at the New Bedford Textile School as Instructor in Chemistry.—A newspaper clipping tells us of the engagement of Gavin R. Taylor to Miss Ruth Emsley.—Another newspaper clipping tells us of the engagement of Ernest Huntress to Miss Zilpha Woodworth. The date of the wedding has not been set.—Professor Locke offers us the following news of Jawn Perkins, Jr. He has had a recent addition to his family, introducing John R. Perkins, 3rd. Perkins, Sr., is still with the 12th Field Artillery at Fort Sam Houston, Texas.—Skeetz Brown and Syner are still in Mexico working for the American

1920 Continued

Smelting and Refining Company.—L. D. Wilson has gone into the interior decorating business in New York City. Quite a jump for a civil engineer!—Henry Massey is now engaged in the real estate business in Boston.—George "Pierpont" Morgan writes very faithfully again from Beaumont, Texas, where he is still with the Eastern Texas Electric Company of Stone & Webster. For the past few months he has been conducting vocational training classes. He has been advanced to the rating of Assistant to the Manager, and is gradually assuming more responsibilities. I am sure we wish him the best of luck in his future work.

FINANCIAL STATEMENT

Bank balance turned over by C. B. Stanwood,

June 1920	\$1067.81
Received from Institute	200.00
Deposited from Athletic Assessments	27.00
Interest Accrued	12.05
Cash deposited	28.00
Interest Accrued	8.35
Alumni dues received	10.00
Interest Accrued	1.45
	<hr/> \$1354.66

Checks paid out:

Robert Paterson, Senior Dinner	\$13.05
H. S. Ford, Dance and Galvin's	100.00
Rothe's Lost Wig, Class Day	4.25
Catering Senior Dance	210.00
Coupon Books Senior Week	15.00
Ballots (Class)	21.00
Ballots (Class)	14.00
Senior Week Programs	504.50
Clerical Work to Alumni Association	22.43
Clerical Work to Alumni Association	33.01
Secretary's Traveling	3.18
Athletic Fund	35.00
Clerical Work to Alumni Association	29.84
	<hr/> \$1005.26

Bank Balance April 1, 1923 \$349.40

1921

R. A. ST. LAURENT, Secretary, 754 Morton St., Mattapan, Mass.

CAROLE A. CLARKE, Assistant Secretary, 528 Riverside Drive, New York, N. Y.

Looking for an inspiration as to how to start these notes the only one in sight is the sunburned bald head of the Secretary of the Class of 1917, Moral: Play golf with a cap on.

To begin with, there won't be half enough space in this issue to run all the notes available on twenty-one-ers. In fact, with all that was run last issue, there were some twenty men about whom notes were written for which we could get no space; nevertheless, we will write as much as we can and hope that the Technology Review Editors do not use their scissors too freely.

So many requests for addresses have been received that it has been impossible for your Secretary to keep up with them. As a consequence of these requests and need of more space in the Review, it has been deemed advisable to take the time and money to publish and distribute to all present and former members a Class Directory. In this Directory, it is the plan to give a man's full name, course, nickname, present address, permanent address and space in which corrections can be made as they appear month by month in the Review.

Whereas, it will be several months before this Class Directory will be published, now is the time for you to inform your Secretary of any new connections and addresses since your last communication. We must work from the information in hand that you send us, and if it is not complete or up-to-date, it is your loss. Won't you do your part now?

Herbert A. Kaufman, X, Carteret Inn, Carteret, N. J., writes in part: "On the first of April, I deserted the ladies' underwear field—and returned to the country of my birth" so to speak, by connecting up with the United States Metals Refining Company, as an assistant in the Metallurgical Department of the U. S. M. R. Co., which smelts and refines copper and recovers zinc, silver, gold, platinum, etc. They have a large plant here which can refine 20,000,000 lbs. per month.

"The department I am connected with consists of a chief, his assistant and two others including myself. We have a boy to run errands, two offices, etc. (including towels). Our job (note the familiarity) is to do plant research problems and this takes us all

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over the plant and gives one a chance to see the 'wheels' move. I imagine it is something like your X-A men's jobs at Lackawanna Steel. I certainly am enjoying it and can say this much that so far they haven't given me a chance to get tired of any job. For the last couple of days we have been running a test on a Cathell precipitator. It was good fun; a hundred feet

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1921 Continued

in the air and right next to 75,000 volts must give any one a thrill. What do you think?

"There are several Tech men out here at the plant, but none of our Class—mostly older grads, also a lot of Lehigh boys who seem to be a nice bunch.

"The other evening on my way out I met Sandford Hill, X, '21, and we thought it would be a good idea if all the '21 men near Newark got together some night and talked things over. Please shoot a notice to that effect in the Review. They can communicate with me or with Hill whose name is in the 'phone book."

What do you fellows in and around Newark say to this? Just let the urge move you to call up Herb or Sam.

Ed Clark, X, dropped in not long ago, between twelve-hour shifts and let us know that he is with the Providence Gas and Electric Company. Learning the gas game is his mark with coke oven practice as the present occupation on shifts.

Willard G. Loesch, III, c/o The Hanna Furnace Co., Zug Island, Detroit, Mich., was first on blast furnace operation with the Hanna Furnace Company at Leetonia, Ohio, and is now at Detroit, Mich., for the same company in the same line of work.

Herbert B. Loper, I, can be reached at P. O. Box 45, Jacksonville, Fla. (Present address) c/o Adjutant General of the Army, Washington, D. C. (Permanent address.) Herb says on the exam in answer to "First job after leaving the Stute": "None. Still struggling under the tremendous responsibilities incident to the job of military assistant to the District Engineer keeping the rivers flowing downhill, exerting my influences with the tides, picking water hyacinth from the navigable waters of the U. S. and maintaining intimate contact with a reliable line of bootleggers." In answer to "Present position": "Same as above. Suffered no promotion. Enjoyed one demotion, so that now I am a 2nd Lieutenant with no change of pay, allowances or nature and extent of duties. He also says: "As a matter of information, we have formed a branch of the Alumni Association in Jacksonville, consisting of about six victims from various classes 1894 to 1921. We have not incorporated or issued bonds to construct a club house. Our activities to date have consisted of a monthly luncheon at which we consume chop suey and drink tea in honor of the days that were. I met a bird of the Class of '16 who is earning a living wage by checking in a hotel at Daytona, thereby proving to all the world the value of an engineering education."

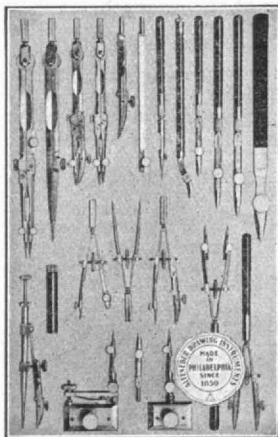
Leigh J. McGarh, I, Apartment No. 33, 842 South Durbin Street, Casper, Wyo., was formerly Engineer for Producers & Refiners Corporation, C. E. field and office work in charge of party. He is now Engineer for the Standard Oil Company (of Indiana) Casper, Wyo., designing, covering a large range of subjects, lots of pipe layouts, refinery work, drafting table mostly. Leigh says: "Tommy Thomson, II, '22, and Charles McGrady, II, '22, are here in Casper. We all work in the same office."

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Maurice (Walt) Mason, X, 426 Washington Street, Norwood, Mass., is a Chemist with Bird & Son, East Walpole, Mass., paper mill control and research work. To those who didn't hear, Walt was married September 8, 1922, to Miss Eva M. Arel. It's the life!

John B. Mattson, VI, 43 Riverdale Street, Boston 34, Mass., started with the Hood Rubber Company, Watertown, Mass., Experimental and Testing work and is now in charge of electrical development with the same company.

Bruce M. Mills, VI, 419 Union Street, Schenectady, N. Y., is Assistant in charge of testing motors with the General Electric Company, Schenectady, N. Y.

Oliver A. Mills, XIV, c/o A. S. & R. Co., Minas Tecolotes y Anexas, Santa Barbara, Chile, Mexico, started with the American Smelting & Refining Company, Sierra Mojada, Coahuila, Mexico, as Engineer and Mine Surveyor, and now with them in Mexico as Flotation man at Santa Barbara.

Harold K. Moritz, II, 2900 E. 53rd Street, Seattle, Wash., last year was an Instructor in the Department of Applied Mechanics and Machine Design, Engineering College, University of Nebraska. He is now a Designer for Kirsten Boeing Engineering Company, Seattle, Wash.

Donald G. Morse, X, 57 Hixon Place, South Orange, N. J., is with Kraeuter & Co., Newark, N. J., learning manufacture of pliers, wrenches, and golf clubs, with expectation of becoming an executive some day. Don says: "I sent you all my personal dope some time ago; I suppose you didn't look at it. (Sec. You're wrong this time.) Since then, I attended the alumni banquet and learned there is quite a gang of us here. Got all pepped up with the idea of organizing a North Jersey Tech Club. It seemed best not to limit ourselves to the Class of '21, although there are several of us right here. It ought to be profitable to get to know the older men around here, also such an organization will help the Institute. Just at present, we are writing the New York Tech Club for their mailing list. In searching for some good wood lacquer I came upon Bill Rose, XV. He is at present Assistant Superintendent at the Egyptian Lacquer in Keaney, N. J. Bill said it was the first he knew of any '21 fellows around here and he is all for getting better acquainted with his neighbors. Ross Goddard, IV, lives in Maplewood, N. J. Just now, he is building a new club house for the Maplewood Golf Club and is all set for building his own home shortly. Jack Whipple, who makes umbrellas out in Lindhurst, showed me the inner works of his favorite turkish bath after the banquet in New York." That's the spirit, Don. If you haven't gotten your list yet, let me know and I'll do my best.

Harry M. Myers, X, 134 Fuller Street, Brookline, Mass., is a Research Assistant in the Research Laboratory of Applied Chemistry at M. I. T.

C. Arthur Newton, II, 31 Laurel Street, South Manchester, Conn., is with Cheney Brothers, South Manchester, Conn., working on scientific management, time study, etc.

Edward Whittier Noyes, III, 521 6th Street, S. E., Minneapolis, Minn., is a Sales Engineer with the Sullivan Machinery Company, 122 South Michigan Avenue, Chicago, Ill., Mining and Industrial Machinery.

Rollin F. Officer, XV, P. O. Box 171, Carteret, N. J., was a Budget Engineer with H. L. Doherty & Co., New York, N. Y., but is now Assistant Construction Engineer of the oil storage plants with the Mexican Petroleum Corporation. Cap would like to hear from "all those who have gone into bootlegging, and please specify quality and price."

John Roger Oliver, II, 179 St. Botolph Street, Boston, Mass., is with the Reece Shoe Machine Company, Boston, Mass., on experimental designing.

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1921 Continued

Hugh F. Peirson, XV, 1320 East 141st Street, East Cleveland, Ohio, started as Assistant Mechanical Engineer with The Teagle Company, Cleveland, Ohio, and is now Employment Manager of The Aetna Rubber Company, Cleveland, Ohio, and is in charge of the personnel department.

Victor S. Phaneuf, II, 122 Concord Street, Nashua, N. H., formerly with the Park Worsted Mills, Lowell, Mass., doing work of varying character, getting at the ins and outs of the business, is now with the Saco-Lowell Shops, Lowell, Mass., in the Experimental Engineering Department. Vic says: "There are several Tech men in the office of the Saco-Lowell Shops. They are R. P. Stevenson, '08, S. Borovoy, '12, W. B. Kelleher, '15, R. A. Crosby, '16, R. E. Naumberg, '16, E. Praetz, '21, Yours truly, '21, and Williams, '22. I suppose you all know that P. R. Payson, '21, is engaged to his Arlington friend, but is not quite married yet."

Donald Stover Piston, VIII, 91 Thorndike Street, Arlington, Mass., is an Instructor in Physics at the Stute.

Among the June engagements is that of Sumner Hayward, X, to Miss Mary E. McCoy of Boston. Sumner is in the General Engineering Department of the New York Telephone Company and is living at 133 Shephard Avenue, Newark, N. J. Announcement of the engagement of Paul A. Morgan, X, to Miss Ora B. Coakley, was recently made. Congratulations!

William H. Young, Jr., II, 325 Ellison Street, Paterson, N. J., writes on a company letterhead of the Novelty Machine Company as General Manager: "The Novelty Machine Company will probably keep me from getting to Boston to see you for some time yet. My work consists of interviewing inventors, improving their inventions, getting them patented through our Washington Patent Lawyers, and manufacturing the patented article for them. If the inventor desires, we purchase the same from him, or sell it for him. Thus ends my career."

Bill says he's not married yet, but when he does, the name of the first will be Reginald and the second Mary and "How is God-Father Smithwick?"

The marriage of Miss Helen Louise Coons to Miles M. Zoller, XV, some moons ago. Among the ushers were Guy Davis, '20, Zam Giddens, '21, and Charlie Brokaw, '22. Following their honeymoon, Mrs. and Miles are at home at 1762 Juvenay Terrace, Chicago, Ill. Miles is with the Eagle-Picher Lead Co., in Chicago.

Axel G. H. Andersen, III, is at 456 Jefferson Street, Gary, Ind. Andy started as heaters helper, Coce Plant, Youngstown Sheet & Tube Co., Youngstown, Ohio, and is now metallurgist, Gary Works, Illinois Steel Co., Gary, Ind.

Chelso L. Arrigoni, II, Middletown, Conn., is a member of the firm, Frank Arrigoni & Son, General Contractors. Arri took a trip to Italy about the first of the year — won't you write up a few pages of your trip for us to print, Arri?

Oliver Louis Bardes, XV, 2619 Colerain Avenue (he neglects to say where on his questionnaire), started doing all jobs for the E. H. Bardes Range & Foundry Co., and is now selling and developing new lines for the same company. Ollie was married on April 25, 1922 to Alice E. Pope.

John W. Barriger, 3rd, XV, 84 West 33rd Street, Bayonne, N. J., started as Assistant on Engineer Corps, Pennsylvania System, Jersey City, N. J., Toledo, Ohio, Chicago, Ill., and is now Transportation Apprentice of the Pennsylvania System (i.e. transportation student) New York Division Jersey City, N. J.

Charles H. J. O'Donnell, II, 60 Varnum Street, Lowell, Mass., was first a student engineer, Mechanical Research Department of the General Electric Company, Lynn, Mass., and when last heard from was Assistant to the Superintendent at the Lowell Gas Light Company, Lowell, Mass. He does everything from answering the telephone to $f = My/I$. To quote Charlie's letter: "Will I come home to Lowell at Christmas time to work for the Lowell Gas Light Company here in Lowell, Mass.? No! I did not bring any corn-liquor back with me. My title is as follows: 'Engineer Assistant to the Superintendent.' Please don't mistake this for Assistant Superintendent! I have complete charge of the work's office when about eight others are out. However, it isn't so bad because I have good opportunity for developing my own ideas."

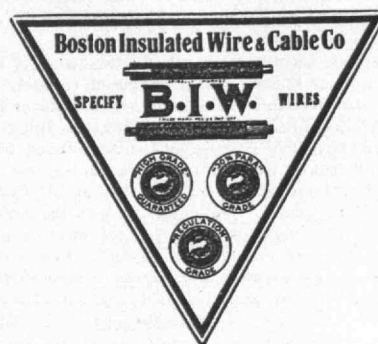
My work is in the maintenance department and takes in everything from the re-design of the coke conveyors to the calculation of cooling coils, etc. Every time I use $f = My/I$, I think of 'Slave-driver' Smith at the Stute. He sure did hammer that into my head."

Thomas B. Davis, Jr., XV, Natalbany Lumber Company, Hammond, La., after leaving M. I. T. went with the above Company surveying, estimating timber and at present is Assistant to the Superintendent.

1922

ERIC F. HODGINS, General Secretary, Room 3-207, M. I. T.

There never seems to be room for the gensec's communications any more. The course secretaries are doing too good a job to leave anything worth-while for the Old Man to say. (Chorus: "As if you had anything worth-while to say, anyway!") Well, well, perhaps not, but observe the proprieties, please. We shall first give up the floor to these course spacehounds, and then if there is anything left of the floor after we get it back, we'll use a little of it. In all seriousness, the problem of space in the Review is a serious one, particularly for the Class of 1922, which, of course, lead all others in amount of news put forth this year. The gensec has contributed little to the last few Reviews for the perfectly honest reason that there was not room for him. Now for the dance of the courses.



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1922 Continued

Course II

J. E. SALLAWAY, Secretary, 125 Cushing Ave., Dorchester, Mass.

Well, now that we can consider ourselves "Old Grads" we shall have to be a bit more businesslike and dignified in our class notes. The new infants class has a glowing example in Course II-'22 for the number of classmates heard from during the past month. It's fun to have so many notes that the gensec complains for lack of space. Keep the news flowing and let the gang know where you are so that they can spend a pleasant evening whenever they are in your town.

The ranks of the married and near-married men are increasing daily. But first I have a correction to make for an error printed in our last notes. Irv Whitehouse is not to be considered among the newlyweds. The date of his wedding should have appeared as September 17, 1921, instead of January 5, 1923. Most humble apologies as well as sincere congratulations. The course's compliments to Henry Howard, 2nd, born December 14, 1922. Irv was not a bit mad because the joke was entirely on us. Our star Phi Beta Kappa mate is doing experimental work on springs in Erie, Pa.

Wedding announcements have been pouring in. Harry L. Pearson took the final step June sixth. This may have been a first anniversary celebration of his final severance of connections from the Stute.—Rumor hath it that Randy Meyers is married. Particulars are lacking so we will have to look forward to definite acknowledgment from headquarters as to the who, when, why, and wherefore.—Eddie Edwards has a new and permanent boss in the person of Mrs. C. H. Edwards. Send all congratulations to 1120 Berkshire Avenue, Pittsburgh, Pa. He is temporarily with The Bell Co. of Pennsylvania working as engineering assistant.

Miss Carpenter is keeping closer tabs on the doings of the course than I can, through Professor Miller's office. We are all certainly indebted to her for her interest. She forwards the information that Roger Bauman is with the Fulton Iron Works in St. Louis, with Ray Burrus. Bill Cooper is another one of our representatives in Philly with the Alan Wood Iron & Steel Co. Monk Dickson is linked up with the Link Belt Co. way out in Indianapolis. Howard Duge helps Meyer, Strong & Jones, Inc., at 101 Park Avenue, New York City, to stay in business. Bob Haskel is with the Allis-Chalmers Co., in Milwaukee, in the hydraulic division. Gabriel Smith is not satisfied with an S. B. and is at the Stute hunting for a Master's. Best of luck. Looie Hill is swinging girders for the La Belle Iron Works in Steubenville, Ohio. Miss Carpenter says that Fry Speir and Looie Hill could squeal on lots of the fellows if they only would. All news will be considered strictly confidential and no names mentioned. How does that sound? Gosh! but Dame Rumor is a funny girl. She has whispered it around that Mac McCurdy and Bryant Essick are married. Of course, we don't want to be too hasty, but the class likes to hear about these things.

Van Gieson is with the Crane Co., selling valves and fittings. He has joined the ranks of the flivver pushers. I was pushing into Springfield myself last week and tried to look up that individual, but he is in Hartford some-

where. Address all correspondence to Crane Co., Hartford, Conn. Van has a good joke that I think ought to be passed on to the fellows. Van got a complaint from a steam fitter that had ordered some pipe threaded right and left, that he was having trouble in assembling the job. He said that the left-hand thread had been cut on the wrong end of the pipe.

Herb Allee has a soft spot in his heart for the Studebaker car. He is with that company out in Detroit.—Ham Hammond has shifted to the Whitlock Coil Pipe Co. in Hartford.

Hartford is getting to be quite a gathering point for the old guard of the Course II drawing room. John Molinar is there also working with the Pratt-Whitney Co., "in charge of production," as the papers put it. Great work, John! Since last writing, the marriage of the above-mentioned gentleman has leaked out. January 10 was the date on which Miss Gladys T. Burrows became Mrs. Molinar. All this happened in Hartford and did not become known to the general public until she accidentally dropped a wedding ring of platinum out of her bag.

The papers have been full of the news that Carl Shattuck is engaged to Miss Eleanor Brigham of Worcester. One paper gives Carl's position as Dispatch Officer for the Port of Boston of the American Merchant Marine Library Association. That is quite a title, Carl; tell us what it all means.

Ku Ku made his professional debut in the Second International Silk Exposition at New York. He represented the China Raw Silk Industries. Ku had several Chinese girls reeling raw silk as a very attractive part of his exhibit.

Tom Freeman is married and rustling oil barrels or clipping coupons from Oil stocks out in Casper, Wyoming. We don't know the bride's name other than Mrs. Freeman. Captain Cox is instructor in Automotive Transportation at the School of Fire, Fort Sill, Oklahoma. Aside from his activities at golf, swimming, hunting, and airplaning, he had a lot of work to do this winter.

Hem Hemenway can be reached at 1011 Eighth Street, P. O. Box No. 139, Moore, Pa. When last heard from he was a technical apprentice with the Westinghouse Company at the South Philadelphia Works. By now, we are looking for his name on the top of Westinghouse stationery. He says that Bob Hallock is somewhere in Philly also.

I bumped right into Sam Reynolds at the Boston Auto Show this spring. He is selling storage batteries for the Philadelphia Storage Battery Company out of Boston. Whenever you see a sign for the "Diamond Grid Battery," just think of how hard Sam is working for all those new accounts.

Frank Russell and Randy Meyers spent last summer in Europe. What's going to happen this summer to Frank? We know Randy's fate.

Birth certificates from Cicero, Ohio, show that E. C. Brown is father of a little girl. Also that he works for the Consumers Company of Chicago, building materials department. We will have to assume that E. C. is married unless we get further information.

R. V. Wood is engaged in power plant work somewhere in New York. More information desired about a quite dissimilar engagement.

Ham Williams sent in a whole typewritten page about his job. It's a honey. Right in his home town, Winsted, Conn., with William L. Gilbert Clock Company in their planning department. Ham had six months' experience with the Public Service Electric Company of New Jersey before he struck the "goal of his dreams" right in his backyard. It's a shame we

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1922 Continued

can't announce Ham's engagement or something exciting like that. One perfectly good planning engineer going to waste. Ham intimates that we can expect an announcement of some sort from Howie Flather from up Nashua way. We won't say any more until Howie tells the story himself.

Jim Guardo sent in a masterpiece explaining his work in detail. Preliminary rumors went astray. Jim was doing mechanical rather than chemical research for National Research Council at the Stute. But he searched far and wide and could not find what he wanted so he gave it up as hopeless to go with the Mead-Morrison Mfg. Co. of East Boston and make tractors and locomotives. Between breaths, he is studying literature and medicine preparatory to entering Harvard Medical. Gosh, but it must be great to be ambitious! Ask Caesar or Guardo.

Ducky Detling is sub-president of the Revere Sugar Refining Company in Charlestown.

Duke Comey is building bungalows somewhere. We don't know exactly whether he is doing this for a living or for his own self-occupancy.

Well here is the dope on 10% of the course and not more than 40% have been heard from. Let's try and make it 100% by the first fall edition and show these other courses what real spirit is. Warm up your writing arms with the warm weather and I'll promise to print anything that the gensec will pass. Get me the stuff so that we can all get in on it. Happy vacation to all!

Courses VIII and IX

THOMAS H. GILL, *Secretary*, 6 Montague Terrace, Brooklyn, N. Y.

Well, fellows, this life as a secretary isn't what one would call all-producing. In the first place, about forty notes were mailed with the result that but four answered. Sort o' discouraging—eh? Must be, the spring fever has the crowd firmly in its grasp. But then, there were many that haven't ever been so courteous as to acknowledge the notes that have been mailed every other month since last fall. This element must be hopeless.

However, the usual few trusty came through very strong. There was, especially, a nice thick, newsy letter from our old friend Huck Harris, one of the Eighters. Huck hangs his hat at 99 Clay Avenue, Rochester, and, of course, does the daily stunt for the Eastman people. He is employed as an industrial physicist and states in part, "I've travelled all the way from the designing of automatic electrical light charge boards, light reflectors, and photographic instruments to the old problem attempted by Julius of eliminating vibration disturbances from a galvanometer system by suspension." He states that it appears to be a Tech institution with C. P. Brockett, X, (who claims he doesn't smoke nor chew nor associate with women) and Jewett, II, who is located in the Power Department and monkeys around with the brine lines, being only two of the many. Also that one Clayt Grover, V, is with the Rochester Gas & Electric Company in the sales end of the game.

Huck wants all his brother Eighters to pay close attention to this—"For the benefit of all my good brothers in Course VIII kindly have them note to the effect that I am still conducting a campaign for new members in the Bachelors' Club. Rates have increased considerably. The new laws require a membership of five years and stipulate that any member breaking faith shall pay \$25.00 to all other members of said Club. (By breaking faith, I mean getting hitched.)"

And then, in the same mail with Huck's letter, came one from Andy Bell, who is in the furniture business in Drexel, N. C. "I hope to be in Boston in 1925 for the Class Reunion, but not alone. I am going to marry the finest little girl that was ever raised in the State of Kentucky this coming fall." How do you like that, Huck?

E. E. Taylor reports nothing much of importance in Hempstead, N. Y., except that Carl Stenholm, '21, who is in the manual training department of the high school, was married March 29. It must have been an ideal match as he reports they announced their engagement only five days previous and that he met her the week before they announced the engagement. Some speed!

Fellows, lend me your ears! Do you remember one Frank M. Gracey who used to teach free-hand drawing at Tech? Well, Rollin S. Baldwin has

unearthed him at Yale, working for a Master's degree in religious education. He states that "Professor Mueller told me once he thought I'd make a good minister, and if Gracey can go in for that life, I guess I could succeed at baptizing infants, marrying the feeble-minded and burying the dead."—Carried!

Well, Eights and Nines, your Secretary wishes you all a very pleasant and most enjoyable summer. But don't forget that we are due to perform in the fall, so make note of all the important details for the Review.

Course VI

FEARING PRATT, *Secretary*, 120 Main St., Hingham, Mass.

This is station SIX-22 broadcasting from Hingham, Mass., F. P. announcing. We are very pleased to announce that the following speakers will entertain you this evening: Walter L. Hunt, Ev Vilett, Tommy Williams, and Parke Appel. We will now play a record for tuning purposes, after which the evening program will begin. Kindly excuse the undesirable noises due to this record, as it is badly worn at the present time. We hope to be able to discard it in the near future. Just a moment, please.

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1922 Continued

The past two months has favored the Secretary with news from several of our course members. I wish I were able to write the same in regard to replies to these letters. Many of the gang have not received replies and though they may have long ago lost hope of ever receiving one, the unexpected is due to happen this summer. An inspiration—the replies will be used to broadcast news of our course during the summer and early fall months, during which time the Review is on its vacation.

Walter L. Hunt, a well-known and sober electrical engineer of Mill City, Pa., will now speak a few words on "The establishment of a home, the duty of every Course Six man." Mr. Hunt.

"Although far removed from cultured, Boston, the mails still run and occasionally I am gladdened by the sight of the Tech Review, which I eagerly scan for news of the illustrious Class of '22, particularly Course VI. Let me hasten to add my little bit to the notorious records.

"Upon leaving Boston, I came to Unadilla, N. Y., married, and settled down [I came, I saw, I conquered]—F. P. in a country town for peaceful reflection on the wonders of E. E., for I am engaged in the lumber business with my father-in-law. My particular duties have to do with the supervision of a dozen lumber lots in a radius of fifty miles, together with some office work as assistant to the manager. It's quite a task and I find myself busy most of the time—a thing which seems remarkable to say the least.

"Maybe you think the lumber business is far removed from electrical engineering, but if you could go out with me one day and hear some of the remarks from the seasoned lumberjack when he feels he isn't receiving his rightful count on lumber manufactured, you would realize a great deal about eddy-currents, hysteresis, and heating effects in motors—sometimes called human.

"Summer address same as winter one—Unadilla, N. Y. Should be glad to hear from any of the gang and shall look for more detailed news through the medium of the Review. Best regards."

Station SIX-22. The next speaker this evening will be Ev Vilett of 147 West Jersey Street, Elizabeth, N. J. Mr. Vilett is nationally acknowledged one of the greatest power distribution engineers of this age. He has spoken from this station and it is with great interest that our readers await his words. Mr. Vilett.

"In my drawer full of unanswered mail, I find your letter of September 17, and I surely feel quite delinquent. If all your correspondence are in my class, you surely can not be overburdened with incoming mail—but—well you know how it is.

"Since September I've surely absorbed a lot of good dope—met a bunch of '22 fellows and had a passably enjoyable time into the bargain. Elizabeth is a short ride from New York, and Times Square offers many inducements to making the trip. Perhaps you are making trips into Boston for the same reason. A gang of us manage to get into a show or a hockey game or some sort of excitement every week or so.

"Dwight Gray, V, with Phillip Ruxton Co., is their chemist over in Brooklyn, Larry Washington, II, is with Griscom Russell in New York, Fri Speir, II, is with Westinghouse developing radio tubes in Bloomfield, N. J., Jegger Dean, XIV, a cadet like myself with the Public Service Corporation at present operating sub-stations in Newark.

"I've seen Shorty Kurtz, XV, and Al Bowers, II, a couple of times, as both are living here in Elizabeth. Shorty is with the Atlantic and Pacific Tea Co., and Al with the Worthington Pump Co. in Harrison. Course VI was represented at the '22 dinner in New York a few nights ago by Phil Coffin, who is in the general office of the Public Service distribution department, and Les Price, in the meter department of the Public Service. I'm still doing cadet work in Elizabeth—distribution department. I spent two months operating sub-stations, then two months on sub-station repair work—which unfortunately included some pick and shovel work and also painting the Elizabeth Outdoor Sub-station along with the various electrical jobs—then another two months in the meter department. Most of that time I spent working on voltage regulating for our district but had to shoot a line in everybody's cellar, most of which I found crowded with wine kegs—full. At present, I'm in the line department. Have been in the hooks climbing poles and in the manholes splicing cable and still have a couple more months in which I expect to dig a few post-holes and solder a few taps.

"Jim Nesmith and Larry Coddling are in Essex now in generation. Ralph Wetstein, VI-A, is a cadet in the Public Service Production Company. I hear from Allen King every now and then. Last I heard he was in Minneapolis looking after complaint work for Northern States Power Co.

"I am still boarding in Elizabeth. Last week, Bill Perry, X, moved in. He is with Proctor and Gamble, making Ivory Soap on Staten Island.

"Guess this isn't a letter, but more of a news bulletin. But if everyone is as slow at writing as I've been, I imagine you are wondering as to their whereabouts as I am of a bunch of the other fellows. Let me hear how you are getting along."

Station SIX-22. The following will be of interest to all. Returning from lunch a few days ago, I bumped into John Karcher. John is with the B. F. Sturtevant Co., and is in the motor department. His work covers both design and sales. However, he said he does not have to sell the motors which he designs. John is responsible for the statement that Fred Hall is with the Bristol Co., Widener Street, Philadelphia. His specialty is loud speakers for radio sets.

We have a few moments left in which Parke Appel will speak on . . . on . . . just his same old line. P. D.

"Just a few lines to let you know that I am still alive and kicking down stairs under you. I am holding down a job in the Outside Plant Department

doing electrical testing work of a laboratory nature. Any piece of electrical work involving design of testing equipment, electrical testing, and operation which is considered a little too high-brow for the maintenance crew to do, is thrown at our department—of which I am getting my due share.

"Lately I have been shooting around through the wilds of Maine doing work involving electrode boilers of 1600 k. w. capacity. I don't believe there is a piece of electrical junk made about which there is so little known. We sit around and handle this high voltage—high capacity stuff like nothing at all, praying all the while that nothing will burst.

"I went over to the Stute the other day, and saw some of the old gang, who used to put it across in the Dynamo Lab: Jones, Dambly, and Davis. All were quite excited about new jobs coming in."

Course XIV

WALLACE L. HOWE, Secretary, 48 Pearl St., Watertown, Mass.

As the time for the last Review of the year approaches, some have generously heeded the call and forwarded bits of interesting information. To these, we are very grateful, for it is through their coöperation that we are able to keep these columns alive and interesting.

Two members of our class have broken into print in the form of a paper on overvoltage by Knobel, Eiseman and Caplain. This was presented at the May meeting of the American Electrochemical Society in New York. Phil took part in the discussion that followed and was given hearty moral support by Max Ulbrick and Kendall Page.

Max and Kendall are getting valuable experience in Public Service with the New York and Queens Electric Light and Power Company. Their main problem is the carrying out of negotiations with consumers for contracts and service combined with some engineering work.

Archie Robertson after tramping through the Northern wilds last summer and fall returned to the Institute in November to finish up his Perborates. But the lure of the Canadian woods (Jimmy Sarros says it was distilleries) was too great and Robie went back to the North in hope of landing a job in some mining camp. Jimmy as a hand-writing expert kindly translated Robie's letter.

Slippery Joe Cosgrove is still at Hawthorne, Ill., but it is understood that he wants to be transferred East and hopes to be here early in the summer.

Jimmy Sarros expects to grab off another degree from the 'Stute by the middle of July, an S. M. in Electrical Engineering. After that, he takes up a research position with the Western Electric Co. in New York.

Professor R. Eugene Downing is still engaged in implanting sine waves, fluxes, etc., in the minds of the innocent at the University of Maine. He plans to take several courses in Electrical Engineering and Mathematics at the University of Michigan this summer and to return to his teaching profession at Maine next fall. Eugene is a Maine boy and rather enjoys the rigors of a severe winter, although he is compelled to walk nine miles to work through flooded streets and over sunken bridges. This was once only, he emphasizes.

Fletcher has completed his work with X-A, which he enjoyed immensely. He offers a bit of personal information in that Harold Stanley is now a frequent visitor to Norwood, but that is about all it is safe to print at present.

Milton Manchell has been promoted from the Department of Technical control to the position of Assistant to the Production Engineer at the American Writing Paper Company, Holyoke, Mass. He writes that he has monkeyed with chlorine gas for bleaching pulp, as well as with hydraulics, mechanics, efficiency, electrical and steam engineering problems. A job only a XIV man could tackle.

Many thanks are due to Windy Powell, for by means of his gaseous effervescences, he has stirred up a number of the graduate students to drop a newsy line. Windy expects to extract his S. M. in Electrical Engineering from the 'Stute this summer and although his plans are not definite, he is inclined toward the teaching profession.

Vernon Whitman will get his S. M. in Physics this June and will return next year in quest of a D.Sc. Whit and Ding are breaking more glass tubing than ever. Whit has been acting as assistant in the electric furnace laboratory and has M. de K's O. K. as being the best yet.

A. L. M. Dingee besides helping Whit break up glass tubing is happily married and is putting on weight around the belt line to prove it.

Ding has been acting as laboratory assistant in the Freshman Physics Laboratory and another year expects to be connected with the same department in a similar capacity while choosing the elusive yet highly prized degree of D.Sc. in Electrochemical Engineering.

Dean Worcester frankly admits that he is one of the lowliest of the 50,000-odd slaves of the New York Telephone Company and enjoys it immensely, although it doesn't give much scope for what we so laboriously learned about isothermal and reversible equilibrium boxes. At this date, he writes that he is much grieved that I have neglected to record the fact that he is a proud father of a seven months' old son. We all congratulate you, Dean.

Charles Fulton has been teaching mathematics and General Science in the local High School at Fairfield, Iowa. Charles is not greatly enamored with the profession and is undecided as to his future plans. He was operated on for appendicitis during the winter. He has fully recovered from his illness physically, but not financially, so he states. Since beginning the study of the humble but delicious plant, the mushroom, he has eaten thirty odd different kinds without being poisoned yet, and is still going strong. He invites all members of XIV and other friends to look him up when travelling that way.

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1922 Continued

Contrary to all scandal, Phil Caplain is not determining the overvoltage of a perfect hat solution, but is connected with the Radio Corporation of America at Rocky Point, New York, and is endeavoring to tune in with nature. The station is used to send messages to Europe and is reported to be the largest in the world. The antennae are over a mile long, while the voltages playing around there are enormous. As Phil states, "a fool now treads where angels would fear to walk."

He is living at a club on the grounds with other unmarried fellows in the company's employ and the life is very reminiscent of the dorm, except that it is located miles from anywhere.

Ed Gruppe, at the last moment, offers a little news. Ed is still with the Rochester Gas & Electric Company and was recently sent by the company to the National Electric Light Association Convention in New York. While there, he bumped into Coddington, Dean, and Violet, all of whom are now with the Public Service Corporation of New Jersey.

Ed is now associate editor of the *Rochester Engineer*, a monthly magazine issued by the Rochester Engineering Society. He also has the honor of being chairman of the publicity committee for the same society.

Your Secretary is at present in the employ of the Norton Company at Worcester, Mass., as a research hound far from the madding line of conductivity cells and electrolytic iron plants. The work has proved very interesting and I'm now able to appreciate the difficulties in plant research.

The work of being Secretary for Course XIV has been enjoyable. News has been lamentably lacking at certain periods of the year, but at the last moment you came through remarkably well, and I wish to thank you heartily for your cooperation.

* * *

It is the unhappy duty of the Secretary to record two deaths. Langdon McCord Cheves, IV, died on May 19. Unfortunately, we have no details.

The second death is that of Bob Lund, on June 16. A letter from Dale Spoor to Bill Russell gives the news that Bob had been sick, on and off, for about three months, but of nothing that was considered serious. He had always had a bad heart, however, and just at a time when he was thought to be getting well, it suddenly gave way. The funeral was on Sunday, June 17.

There will be a time, of course, when we are more used to deaths. But when we are still the next-youngest of Institute graduates, the death of friends strikes deep with us. To the families that have been bereaved, the class offers its most sincere and respectful sympathy.

* * *

As we come to the close of the column and the year, we are conscious of a most uncomfortable pressure of things left unsaid. It is too long to wait until November, so that the gensec thinks he can promise the issue of a special class bulletin sometime during the remainder of the summer.

During the summer, it is likewise our hope that we may be able to issue a questionnaire to every member of the class which will extort the news of himself that he has not volunteered. During the year the class has published 2972 lines of news as contrasted with 2235 lines for our nearest rival, 1921. This is, we think, creditable, but there is still much news of men which the plough of no secretary has yet turned up. It is to aid in this furrowing process that we are contemplating the questionnaire.

In the breathless expectation of which we shall take our leave of you for a little while.

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Mail may be addressed to a Box Number in care of this magazine and will be promptly forwarded to the Advertiser. Other than this, the Review assumes no obligation. Such address counts as five words.

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LARGE manufacturing concern is looking for a young man who has a real interest in industrial relations to act as understudy to the Industrial Relations Manager of one of their factories in the vicinity of Boston. Personality will perhaps be the outstanding factor in selecting the man for this position. Address TECHNOLOGY REVIEW, Box 3032.

RELIABLE firm handling investment securities is interested in receiving applications from recent or older graduates for positions as bond salesmen in New York City and vicinity. Candidates must have specialized in economics and have had a successful record at sales during their college course or subsequently. Men between twenty-four and thirty years of age will be preferred. Compensation will be on a commission basis with a drawing account. Address TECHNOLOGY REVIEW, Box 3030.

RESearch chemist who has had experience on cellulose products wanted by a Massachusetts manufacturer. Should be a man who is interested in pure research rather than one whose interest lies in plant operation. Address TECHNOLOGY REVIEW, Box 3023.

THREE recent electrical engineering graduates wanted for Distribution Engineering Department of light and power company located in Pennsylvania. Excellent opportunity for advancement. Advise age, education, previous experience, salaries received and present location. Address TECHNOLOGY REVIEW, Box 1026.

YOUNG graduate wanted to act as secretary to partner of a banking house located in Boston. Should have had a broad general training in economics and banking such as is furnished in the Engineering Administration course and should be acquainted with stenography and typewriting. An exceptionally qualified man who has not this knowledge will be considered. Address TECHNOLOGY REVIEW, Box 3033.

YOUNG men who believe in insurance can find a very attractive opportunity with the Boston representative of a nationally known insurance company. Candidates will be given every assistance in securing prospects, and will be taught the fundamentals of life insurance and salesmanship. There is a real opportunity in this field for a young man to build up a prosperous individual business for himself if he is willing to go through a period of a few years of apprenticeship. Address TECHNOLOGY REVIEW, Box 3034.

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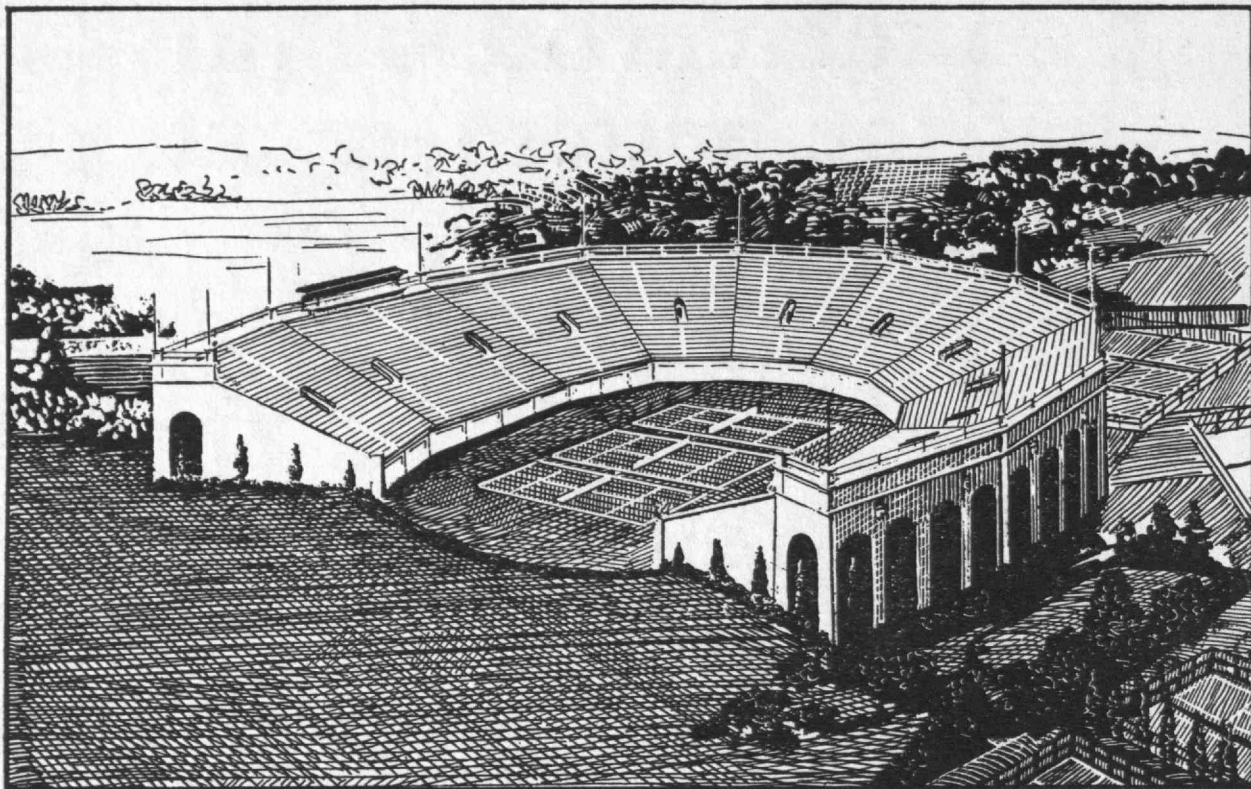
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